

EPA Registration No.  
66171-7  
Vol. 1

**FQPA**

Reviewer ID

Tracy

Submission No.

5620048

Data Package No.

**FQPA**

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 303

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes ☐ (N) No

|15| Child-resistant Packaging ☐

☐ (C) Certification

☐ (S) Service Person

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

|20| Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

|35| Date on Application:

017 31 012  
MO DAY YR

|04| EPA Received Date:

018 01 012  
MO DAY YR

|40| Date Received by PM

018 012 012  
MO DAY YR

**Due Date**

**10/30/02**

|80| Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EECB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE



**OCT 30 2002**

**12**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Mr. Gary Gaumer  
Preserve International  
315 Wall Street, Suite 1  
Chico, CA 95928

OCT 30 2002

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: July 31, 2002  
EPA Received Dates: August 1, 2002

Dear Mr. Gary Gaumer:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is unacceptable for the reasons given below:

- addition of new sites

**Major Deficiencies**

1. You have added a statement "Synergize is Not approved for use in paper that contacts food." Revise this statement to be in agreement with PR Notice 2000-5: "*Do Not Use Synergize for paper which contacts food.*" Only the language which is in agreement with "Paper Mills and Paper Mill Process Water Systems" is an acceptable use for your product. As per the Agency letter of 5/28/02, delete the entire section beginning "Non-Food Contact Pulp and Paper" and ending: "Application may be anywhere in the system prior to sheet formation or to the recirculating white water." as these directions are not supported by other labels for glutaraldehyde.

2. The following site is a new use for this product: cooling towers. You have revised your language in this section of the label to be in agreement with the directions for "Air Washers and Industrial Scrubbing Systems/Recirculating Cooling and Process Water Systems" on the label of Reg. No. 464-693. But as per the Agency letter of 5/28/02 you have not provided the Agency with the rationale as to how you were able to establish the rate for cooling and process water use. We are currently unable to establish the rates for Intermittent and Continuous Feed Methods. The directions for "Service Water and Auxiliary Systems" and "Heat Transfer Systems" are also dependent on this rate information.

CONCURRENCES							
SYMBOL	7510c						
SURNAME	J. J. J.						
DATE	10/29/02						3



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

3. We are unable to establish the appropriate use rates base on the cited label (Reg. # 10352-32, Ucarcide 142) for the following sites: gas production and transmission pipelines, gas storage wells and systems, hydrotesting, pipeline pigging and scraping, and paper mills and paper mill process water systems. Ucarcide 142 does not include directions for use in paper mills.

Your product contains 26% quaternary ammonium chloride and 7% glutaraldehyde while the referenced product Reg. # 10352-32 (Ucarcide 142) contains 7.5% quaternary ammonium chloride and 42.5% glutaraldehyde. The active ingredients in Piror (Reg.# 464-712) are the same and at the same percentages as Ucarcide 142.

It appears that in most instances you have repeated (copied) the exact rates from the labels of other products which do not have the same proportions of active ingredients as your product and do not have the same total amounts of active ingredients as your product. For example, if your product is compared to Piror which includes paper mills and paper mill process water use, at the 3.0 lbs/ ton of paper rate your product would add 0.78 lbs of quaternary ammonium chloride and 0.21 lbs of glutaraldehyde per ton of paper while Piror at 3.0 lbs/ ton of paper would add 0.225 lbs of quaternary ammonium chloride and 1.27 lbs of glutaraldehyde per ton of paper. Thus your are proposing that your product will be efficacious at when using 3 times as much quaternary ammonium chloride and 1/6 the amount of glutaraldehyde as other products on the market. This does not seem reasonable.

Additional examples follow: (all scenarios have not been included)

Your product contains a total of 33% active ingredient, while the product you have referenced for pipeline pigging and scraping (Reg # 10352-32) contains a total of 50% active ingredient. The 50% product is used at 0.1-1% per 100 gallons. You are proposing that your product be used at the same rate (0.1-1% per 100 gallons.) If this is the case there will be much less active ingredient available for this use as your product is only 33% active instead on 50%. Explain how you determined this rate.

With this amendment you have proposed a new use: Industrial Waste Water Systems. It appears that you are referencing Reg # 464-693 for this use. This product is 15% glutaraldehyde with no additional active ingredients. Your product is 7% glutaraldehyde and 26% quaternary ammonium chloride for a total of 33% active ingredient. Yet you have stated that your product is to be used at the same ppm level. If this is the case, there would be 225-1125 ppm glutaraldehyde present if using Reg. # 464-693 as compared to 495-2475 ppm total active ingredients with your product. If you compare the glutaraldehyde alone your product provides only 105-525 ppm. It would appear that at your proposed rate you are either using twice as much product as needed if both ingredients are as efficacious as glutaraldehyde alone or if glutaraldehyde is providing all of the efficacy for this use then your rate should be doubled.

As one can determine from the above examples, neither Ucarcide nor Piror are similar enough to be able to determine the rates for your product. Even though your product contains similar active ingredeints to the referenced products, the Agency cannot establish the appropriate rates for your product using a comparison between two products which are so different.

## CONCURRENCES

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DATE								4



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

The proposed labeling includes several new uses which were not on the last submitted label: "Water Based Coatings Pigments and Filler Slurries for Paper and Paperboard," "Service Water and Auxiliary Systems," "Heat Transfer Systems," "Industrial Waste Water Systems," and "Macrofouling Control." In reviewing our files we are unable to establish that Service Water Auxiliary Systems and Macrofouling Control have been previously accepted for the quaternary ammonium chloride in your product or a similar quaternary ammonium chloride. Please provide the Agency with references to the registration numbers for registered products containing quaternary ammonium chloride and these use sites.

You must have efficacy data in your files to support these uses. Provide the Agency with a written rationale explaining how you have established your proposed rates based on your efficacy data for the following uses:

- A. Gas Production and Transmission Pipelines
- B. Gas Storage Wells and Systems
- C. Hydrotesting
- D. Pipeline Pigging and Scraping
- E. Paper Mills and Paper Mill Process Water Systems
- F. Water Based Coatings Pigments and Filler Slurries for Paper and Paperboard
- G. Service Water and Auxiliary Systems
- H. Heat Transfer Systems
- I. Industrial Waste Water Systems
- J. Macrofouling Control
- K. Air Washer and Industrial Scrubbing/ Recirculating Cooling and Process Water Use  
(previously requested in Agency letter of 5/28/02, the reference label, 10352-32 does not include this use )

These uses will not be accepted for your product until you are able to provide an acceptable rationale as to how you have established that these rates are efficacious.

## Other Deficiencies

1. Revise the direction for use as a Boot/Shoe Wash to be in agreement with PR Notice 2000-5 by stating: "Change the disinfecting solution *at least daily or* when solution becomes visibly dirty."
2. Revise the section on the first page of your label which identifies the sites on which this product may be used by deleting the site "Non-Food Contact Pulp and Paper" and adding "Industrial Waste Water Systems."
3. Make the following two revisions to the "First Aid" statements by revising the "If Inhaled" statement to include: "Move person to fresh air." and the "If Swallowed" statement to state: "Call a poison control center or doctor *immediately for treatment advice*..."

## CONCURRENCES

SYMBOL								
SURNAME								
DATE								5



4. Revise the following sections of the label such that the language is in agreement with PR Notice 2000-5:

Gas Production and Transmission *Pipelines* and Systems: "*Apply the product* to ensure maximum..."

5. As per the Agency letter of 5/28/02, revise the following rates on your label such that your product is in agreement with other registered products which include these uses:

Water Floods: "When microbial control is evident add 20-100 ppm Synergize (0.06-.30 gallons Synergize per 1000 gallons flood water)..."

Drilling Muds: "Add 50-1000 ppm Synergize (0.7-14 gallons Synergize per 100 barrels of fluid)..." and "...level by adding 0.30-14 gallons of Synergize per 100 barrels of additional fluid..."

Completion and Workover Fluids: "Add 50-1000 ppm Synergize (0.7-14 gallons Synergize per 100 barrels of fluid)..."

Packer Fluids: "Add 50-600 ppm Synergize (0.7-8.0 gallons Synergize per 100 barrels of fluid)..."

6. Revise the directions for "Water Based Coatings Pigments and Filler Slurries for Paper and Paperboard" to state: "*Do Not Use Synergize for paper which contacts food*. For use in non-food *contact* coatings only."

7. Revise the directions for "Veterinary Practice/Animal Care..." to read: "Remove all *animals and feeds* from premise..."

8. Revise the directions for "Continuous Feed Method" to state: "Subsequent Dose: *Maintain this treatment level by starting a continuous feed of ....*"

9. Revise the following sections of the label such that the language is in agreement with PR Notice 2000-5:

Service Water and Auxiliary Systems: "*Add Synergize at the same application rates, ...*"

Heat Transfer Systems: "*Add Synergize at the same application rates...*"

Industrial Waste Water Systems: "*Add Synergize to a waste water system...*"

Macrofouling Control: "*Add Synergize continuously to maintain...*"

10. Delete all text on page three as this appears to be repeated information from other portions of the label.

### **Correction of Forms**

Resubmit the Certification With Respect to Citation of Data Forms. Delete the following use from both forms: "Indoor Food." In addition, resubmit the Formulator's Exemption Statement. Revise to state that the date of the Confidential Statement of Formula is: July 22, 2002.

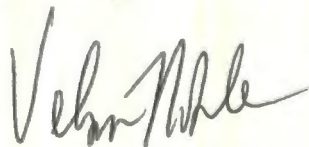
### **General Comments**

Since your product has been through several cycles it is strongly suggested that prior to resubmission you participate in a conference call with the Agency to discuss your proposed response to this letter.

There may be additional label comments once the information requested above has been submitted. Submit revised labels which address the Agency concerns noted above.

Should you have any questions or comments concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

7510C:T.Lantz:10/28/02:66171-7h



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram-negative and gram-positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premises, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH.** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premises, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles. Synergize is also formulated for use in Water Floods, Drilling Muds, Completion and Workover Fluids, Packer Fluids, Gas Production and Transmission Pipelines and Systems, Gas Storage Wells and Systems, Hydrotesting, Pipeline Pigging and Scraping Operations, Paper Mills and Paper Mill Process Water Systems, Water Based Coatings, Pigments, and Filler Slurries for Paper and Paperboard, Non-food Contact Pulp and Paper, Airwashers and Industrial Scrubbing Systems / Recirculating and Process Water Systems, Service Water and Auxiliary Systems, Heat Transfer Systems, Macrofouling Control, Veterinary Practice, Animal Care, Animal Laboratory, Zoos, Pet Shops, and Kennels.

Staphylococcus aureus ATCC 6538  
Salmonella choleraesuis ATCC 10708

Pseudomonas aeruginosa ATCC 15442  
Aspergillus fumigatus ATCC 36607

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride . . . 26.00%  
Glutaraldehyde . . . 7.00%  
INERT INGREDIENTS . . . 67.00%  
TOTAL . . . 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001

66171-CA-001

Patent Number: 5,891,922

## NFPA HAZARD CLASSIFICATION

HEALTH	FIRE	REACTIVITY	SPECIFIC
3	1	1	None

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes and other facilities occupied or traversed by hogs or other animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye, call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing, rinse skin immediately with plenty of water for 15-20 minutes, call a poison control center or doctor for further treatment advice.

**IF INHALED:** If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible, call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for further treatment advice, have person sip a glass of water if able to swallow, do not induce vomiting unless told to do so by the poison control center or doctor, do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Manufactured By:

**PRESERVE**  
INTERNATIONAL

Zephyr Cove, NV 89448 (800) 995-1607 [www.preserveinternational.com](http://www.preserveinternational.com)

Net Contents: \_\_\_\_\_ U.S. Gallons

Batch No. \_\_\_\_\_



#### WATER FLOODS:

Add SYNERGIZE to the water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. Initial Treatment: When the system is noticeably contaminated, add 100 - 200 ppm SYNERGIZE (0.30- 60 gallons SYNERGIZE per 1000 gallons flood water). Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 20 - 100 ppm SYNERGIZE (0.03-.30 gallons SYNERGIZE per 1000 gallons flood water) weekly, or as needed to maintain control.

#### DRILLING MUDS:

Add SYNERGIZE to the drilling fluid system at a point of uniform mixing such as a circulating tank. Initial Treatment: Add 50 - 1000 ppm SYNERGIZE (0.3-6.0 gallons SYNERGIZE per 100 barrels [42 US gallons per barrel] of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 50-1000 ppm SYNERGIZE level by adding 0.30-6.0 gallons of SYNERGIZE per 100 barrels (42 US gallons per barrel) of additional fluid, or as needed, depending on the severity of contamination.

#### COMPLETION AND WORKOVER FLUIDS:

Add SYNERGIZE to the packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm SYNERGIZE (0.30-6.0 gallons SYNERGIZE per 100 barrels [42 US gallons per barrel] of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

#### PACKER FLUIDS:

Add SYNERGIZE to the packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm SYNERGIZE (0.30-3.60 gallons SYNERGIZE per 100 barrels [42 US gallons per barrel] of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

#### GAS PRODUCTION AND TRANSMISSION PIPELINE AND SYSTEMS:

Add SYNERGIZE to the gas production and transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of SYNERGIZE through the internal surface of the pipeline. To facilitate application, it may be desirable to dilute SYNERGIZE with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

#### GAS STORAGE WELLS AND SYSTEMS:

Treat individual injection wells with a sufficient quantity of SYNERGIZE to produce a concentration of 500 - 5000 ppm SYNERGIZE (1.5-15.0 gallons SYNERGIZE per 1000 gallons water) when diluted by the water present in the formulation. Injections should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of SYNERGIZE to produce a concentration of 200 - 2000 ppm SYNERGIZE (0.60-6.0 gallons SYNERGIZE per 1000 gallons water) when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

#### HYDROTESTING:

Water used to hydrotest pipelines or vessels must contain 100 - 4000 ppm SYNERGIZE (0.3-12.0 gallons SYNERGIZE per 1000 gallons water) depending on water quality and length of time equipment will remain idle.

#### PIPELINE PIGGING AND SCRAPING OPERATIONS:

Add SYNERGIZE to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient SYNERGIZE should be added to produce a concentration of 0.1 - 1.0% (0.30-3.0 gallons SYNERGIZE per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

#### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS:

Note: SYNERGIZE is NOT approved for use in paper that contacts food.

SYNERGIZE should be added to a paper making system at a point of uniform mixing such as the thin or thick stock chest, save-all tank, process tank white-water tank.

Initial Dose: When the system is noticeably contaminated, add 0.5 to 3.0 lbs. of SYNERGIZE per ton or 0.25 to 1.5 kg of SYNERGIZE per metric ton of pulp or paper (dry basis) as a continuous or slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

Subsequent Dose: When microbial control is evident add 0.3 to 2.0 lbs. of SYNERGIZE per ton or 0.15 to 1.0 kg of SYNERGIZE per metric ton of pulp or paper (dry basis) as necessary to maintain control.

#### WATER BASED COATINGS, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD:

Note: SYNERGIZE is NOT approved for use in paper that contacts food. For use in non-food coatings only.

Use from 0.1 to 0.6 lbs. of SYNERGIZE per 1,000 lbs. dry powder to produce a concentration of 100 - 600 ppm as product (based on slurry solids) in the mixed slurry.

#### NON-FOOD CONTACT PULP AND PAPER:

Note: SYNERGIZE is NOT approved for use in paper that contacts food. For use in non-food coatings only.

For control of bacteria and associated slime in pulp, paper or paperboard systems use 0.25-1.5 lbs SYNERGIZE per ton of total paper (dry basis) production. Intermittent application to thick stock chests has proven most effective. Typical feed cycle would be 1 hour on at a dosage of 4.0 lbs/ton and then 7 hours off to give a total average feed of 0.5 lbs/ton of fiber.

Feed SYNERGIZE directly from the drum or diluted water. Application may be anywhere in the system prior to sheet formation or to the recirculating white water.

#### VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOOS/PET SHOP/KENNELS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animal feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 1/2 ounce of SYNERGIZE per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.

#### AIR WASHER AND INDUSTRIAL SCRUBBING SYSTEMS / RECIRCULATING COOLING AND PROCESS WATER SYSTEMS:

This product may only be used in industrial air washers and air washer systems which have mist eliminating components.

SYNERGIZE should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (Slug Dose) or continuously. Badly fouled systems can be shock treated with SYNERGIZE. Under these conditions, blowdown should be discontinued for up to 24 hours.

SYNERGIZE can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

#### INTERMITTENT (SLUG DOSE) METHOD:

Initial Dose: when the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of SYNERGIZE per 100 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of SYNERGIZE per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned prior to treatment is begun.

#### CONTINUOUS FEED METHOD:

Initial Dose: when the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of SYNERGIZE per 100 gallons of water in the system.

Subsequent Dose: When microbial control is evident, add 0.8 to 4.2 fluid ounces of SYNERGIZE per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned prior to treatment is begun.

#### SERVICE WATER AND AUXILIARY SYSTEMS: (Fire water systems and spray paint booths)

SYNERGIZE should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

#### HEAT TRANSFER SYSTEMS:

(Evaporative condensers, Dairy Sweetwater Systems, Hydrostatic sterilizers, and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

SYNERGIZE should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

#### INDUSTRIAL WASTE WATER SYSTEMS:

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

SYNERGIZE should be added to a wastewater system or sludge at a convenient point of uniform mixing such as a digester. Add 1.5 to 7.5 gallons (1,500 to 7,500 ppm SYNERGIZE) per 1,000 gallons of wastewater or sludge.

#### MACROFOULING CONTROL:

SYNERGIZE should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

Initial Dose: When macrofouling is present in the system, apply 17.0 fluid ounces of SYNERGIZE per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20ppm active ingredient level for a period of at least 96 hours.



#### AIR WASHER AND INDUSTRIAL SCRUBBING SYSTEMS / RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may only be used in industrial air washers and air washer systems which have mist eliminating components.

Synergize should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (Slug Dose) or continuously. Badly fouled systems can be shock treated with Synergize. Under these conditions, blowdown should be discontinued for up to 24 hours.

Synergize can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

##### INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: when the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of Synergize per 100 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of Synergize per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned prior to treatment is begun.

##### CONTINUOUS FEED METHOD

Initial Dose: when the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of Synergize per 100 gallons of water in the system.

Subsequent Dose: When microbial control is evident, add 0.8 to 4.2 fluid ounces of Synergize per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned prior to treatment is begun.

##### SERVICE WATER AND AUXILIARY SYSTEMS (Fire water systems and spray paint booths)

Synergize should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

##### HEAT TRANSFER SYSTEMS

(Evaporative condensers, Dairy Sweetwater Systems, Hydrostatic sterilizers, and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

Synergize should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

##### INDUSTRIAL WASTE WATER SYSTEMS (Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

Synergize should be added to a wastewater system or sludge at a convenient point of uniform mixing such as a digester. Add 1.5 to 7.5 gallons (1,500 to 7,500 ppm Synergize) per 1,000 gallons of wastewater or sludge.

##### MACROFOULING CONTROL

Synergize should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

Initial Dose: When macrofouling is present in the system, apply 17.0 fluid ounces of Synergize per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20ppm active ingredient level for a period of at least 96 hours.



New: Water based coatings... Industrial waste  
Service water... Heat Transfer... Macroblending

66171-7  
issues:

He added additional new water which  
was not included in the last  
submission.

are these  
all OK  
for the  
guat? - see  
they all in  
same  
REP  
group?

I think they need to delete altogether the section "Non-Food  
Contact Pulp and Paper"

delete not supported by glutaraldehyde  
registration

How should I determine the rate for "Paper Mills and Paper  
Mill Process Water"? Based on which AT or both?

use this example:

half

Bob Q: make sure rate is higher than 21 CFR 176.300  
no limit  
plus ~~no limit~~  
guat no limit

$$33\% \times 1 \text{ lb} =$$

$$.5 \times .5 = .33 \times 1$$

$$.25 / .33 = x$$

$$.76 \text{ lb} = x$$

Products  
+ application  
not similar  
brought to  
compar (50%)  
(0.5 lbs)

just base on the one which  
has a limit in 2

Is their statement adequate for nonfood contact paper?

OK, accepted this for other registrations

PR 2000-5

Change to Do Not Use...

Where did they get "Water based coatings, pigments..." ~~and water~~?

got it from 464-693

Don't understand why they are at the same

double rate of 464-693?

add both to Bruce Emily <sup>middle</sup> rate?

How do I make the rates comparable?

Don't understand their cooling tower rate - should it  
be about 2x now? (if based only on glut) or about  
1/2 ~~now~~ now if based on both ingredients?

→ We had asked him to provide a rationale for his rates which he did  
not. (Major #3)



Is his rate info for gas storage wells appropriate?

(1.5-15.0 gallons / 1000 gallons)

and (0.6-6.0 gallons / 1000 gallons)

check again, then ok

Pipeline and Digging ~~does~~ rate doesn't make sense to me

If the Dow 50% product is at 0.1-1% then Synergize would have to be at a higher rate. based on what

you referenced your rate appears too low.

#4

The referenced ~~the~~ label does not ~~need~~ include directions for use as "Paper Mills + Paper Mill processing."

as they stated for determination of rate.

quite a bit too

Industrial waste water rate is incorrect. If based on all AT it should be  $\frac{1}{2}$  of 464-693. If based on glut alone it should be twice 464-693.

calculate the ppm

Tell him to explain product he referenced has 15% used

We are unable to establish the appropriate use rates based on the cited label for the following sites: . In addition, you did not respond to our request for a rationale for the directions for . You must have efficacy data in your files to support these uses. Provide the Agency with at written rationale explaining how you have established your proposed rates based on your efficacy data.

Give examples of why we are unable to compare this product to the cited label and ultimately establish rates (based on Bob's calculations)

synergize stuff



# Synergize

$$\begin{array}{lcl} \text{Quat} & 0.26 \times 3 \text{ lb} = & 0.78 \text{ lb Quat / Ton paper} \\ \text{Glat} & 0.07 \times 3 \text{ lb} = & 0.21 \text{ lb Glat / Ton paper} \end{array}$$

## Dow

$$\begin{array}{lcl} \text{Quat} & 0.075 \times 3 \text{ lb} = & 0.225 \text{ lb Quat / Ton paper} \\ \text{Glat} & 0.425 \times 3 \text{ lb} = & 1.275 \text{ lb Glat / Ton paper} \end{array}$$

can't compare these two solids they are  
too different we need  
more info to determine  
if efficacious



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor. Do not swallow.  
Wear goggles, protective clothing, and butyl or nitrile gloves.  
Wash thoroughly with soap and water after handling.  
Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 20.3°F (-6.5°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON<sup>®</sup> is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT MATERIAL SAFETY DATA SHEET FOR THIS  
PRODUCT.**

**ACCEPTED**

OCT 12 2001



**NOTICE**

Do Not Ship or Store  
with Food, Feeds, Drugs,  
or Clothing

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended for the  
pesticide, registered under  
EPA Reg. No. 464-693

This label is BUSINESS CONFIDENTIAL and shall not be distributed to  
anyone unless duly authorized by Regulatory Affairs.



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 15.0%  
Inert Ingredients: \_\_\_\_\_ 85.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**FIRST AID**

If swallowed:

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lenses).
- Call a poison control center or a doctor immediately for treatment advice.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.
- If inhaled:
  - Move person to fresh air.
  - If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
  - Call a poison control center or a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.

1-800-258-CHEM

\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-

EPA Est. No. 10352-WV-2

L90225 (J 06/01)

Made in USA

PE0601

Net Contents. 5, 30, or 55 gallons

CONTAINER SIZE	CONTAINER SIZE	CONTAINER SIZE
55 GALLONS	30 GALLONS	5 GALLONS
470 POUNDS	260 POUNDS	43 POUNDS
NET WEIGHT	NET WEIGHT	NET WEIGHT

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call  
collect 989-636-4400.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/  
RECIRCULATING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-microbial reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

**INTERMITTENT (SLUG DOSE) METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 1.7 to 4.2 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

**SERVICE WATER AND AUXILIARY SYSTEMS**

(Fire water systems and spray paint booths)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

**HEAT TRANSFER SYSTEMS**

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Stabilizers and Reactors, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, pump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**INDUSTRIAL WASTEWATER SYSTEMS**

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 1.5 to 7.5 gallons (1,500 to 7,500 ppm AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide) per 1,000 gallons of wastewater or sludge.

**MACROFOULING CONTROL 1000**

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

**Initial Dose:** When macrofouling is present in the system, apply 17 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. These wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedure approved by state and local authorities. Plastic Containers: May be reconditioned, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

CONTINUED ON PAGE TWO



## BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS

AQUACART™ 515 Water Treatment Microbicide should be added to the system at a point of uniform mixing such as the diffuser, transport water pump, wear box, or diffuser feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously.

### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably contaminated, add 19.7 to 49.2 fluid ounces (567 to 1,567 ppm product) of AQUACART™ 515 Water Treatment Microbicide per ton or 567 to 1,567 mL of AQUACART™ 515 Water Treatment Microbicide per metric ton of sliced beets as a slug dose. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 2.95 to 29.5 fluid ounces (100 to 1,000 ppm) of AQUACART™ 515 Water Treatment Microbicide per ton or 100 to 1,000 mL of AQUACART™ 515 Water Treatment Microbicide per metric ton of sliced beets in the system as a slug dose as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably contaminated, add 19.7 to 49.2 fluid ounces/minute (567 to 1,567 ppm product) of AQUACART™ 515 Water Treatment Microbicide per ton or 567 to 1,567 mL/minute of AQUACART™ 515 Water Treatment Microbicide per metric ton of beets sliced per minute in the system via automatic pump of suitable construction.

**Subsequent Dose:** When microbial control is evident, add 2.95 to 29.5 fluid ounces/minute (100 to 1,000 ppm) of AQUACART™ 515 Water Treatment Microbicide per ton or 100 to 1,000 mL/minute of AQUACART™ 515 Water Treatment Microbicide per metric ton of beets sliced per minute in the system, or as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

## PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

AQUACART™ 515 Water Treatment Microbicide should be added to the paper making system at a point of uniform mixing such as the beater, broke chest pump, save-all tank, or white-water tank.

**Initial Dose:** When the system is noticeably contaminated, add 1.8 to 9.9 lbs of AQUACART™ 515 Water Treatment Microbicide per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

**Subsequent Dose:** When microbial control is evident, add 0.9 to 6.6 lbs of AQUACART™ 515 Water Treatment Microbicide per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

## PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

Use from 0.34 to 2.0 lbs. of AQUACART™ 515 Water Treatment Microbicide per 1,000 lbs. of dry powder to produce a concentration from 333 to 2,000 ppm as product (based on slurry solids) in the mixed slurry.

## WATER BASED COATINGS FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact coatings only.

Use from 0.34 to 2.0 lbs. of AQUACART™ 515 Water Treatment Microbicide per 1,000 lbs. of dry powder to produce a concentration from 333 to 2,000 ppm as product (based on slurry solids) in the mixed slurry.

## AQUEOUS METALWORKING FLUIDS

AQUACART™ 515 Water Treatment Microbicide should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less.

**Initial Dose:** When the system is noticeably fouled apply 8.2 to 24.6 fluid ounces (100 to 300 ppm active) of AQUACART™ 515 Water Treatment Microbicide per 100 gallons of metalworking fluid to the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 3.4 to 16.4 fluid ounces (40 to 200 ppm active) of AQUACART™ 515 Water Treatment Microbicide per 100 gallons of metalworking fluid to the system weekly or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

## WATER BASED CONVEYOR LUBRICANTS

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

Avoid contamination of food in application of product.

Thoroughly clean all tracks and conveyors to remove gross soil. Rinse well. Use an automatic feed system as recommended by our DOW representative to provide 4.1 to 24.6 fluid ounces (50 to 300 ppm active) of AQUACART™ 515 Water Treatment Microbicide per 100 gallons of diluted lubricant.

## GENERAL PRESERVATIVE USE

AQUACART™ 515 Water Treatment Microbicide is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer on-car processes and products, to control the growth of bacteria and fungi. For effective preservation, add AQUACART™ 515 Water Treatment Microbicide to the product formulation at a rate of 0.006% to 0.05% (56.8 to 5,680 ppm) based on the water content of the product (0.88 to 6.6 lbs AQUACART™ 515 Water Treatment Microbicide/1,000 lbs water content). Mix uniformly.

## PRESERVATIVE FOR CONCENTRATES

For use in concentrates where effective preservation is needed after dilution, add AQUACART™ 515 Water Treatment Microbicide to the product formulation at a rate such that the diluted end-use product will contain 0.006% to 0.05% AQUACART™ 515 Water Treatment Microbicide.

At no time during the preservation process should the level of AQUACART™ 515 Water Treatment Microbicide exceed 5.6%.

## REVERSE OSMOSIS MEMBRANES

For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.88% to 6.6% AQUACART™ 515 Water Treatment Microbicide.

AQUACART™ 515 Water Treatment Microbicide can also be added to on-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.88% to 6.6% AQUACART™ 515 Water Treatment Microbicide to the tank in the circulating system. Maintain AQUACART™ 515 Water Treatment Microbicide concentration by periodic addition to counteract any system leakage.

## CONCRETE ADMIXTURES

For effective preservation of concrete admixtures, add AQUACART™ 515 Water Treatment Microbicide to the product formulation at a rate of 6,666 to 26,667 ppm based on the weight of the admixture (5.7 to 26.7 lbs AQUACART™ 515 Water Treatment Microbicide/1,000 lbs concrete admixture). Mix uniformly.

## FUEL OIL STORAGE TANKS

AQUACART™ 515 Water Treatment Microbicide should be added to the fuel oil storage tank at a rate of 4.2 ounces to 8.5 ounces per 1,000 gallons of fuel oil. Additions may be made intermittently or repeated as a slug dose with each oil delivery at a rate of 4.2 ounces to 8.5 ounces per 1,000 gallons of oil delivered. Apply to the tank just prior to or at the time of oil delivery or to a tank recirculation line to ensure adequate mixing.

ACCEPTED

OCT 12 2004

Under Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 464-693

Glut 1596

34-2.0 / 1000

PE0601

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through skin. Harmful if inhaled.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing.

Avoid breathing vapor. Do not swallow.

Wear goggles, protective clothing, and butyl or nitrile gloves.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

PIRORM 842 SLMicide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in belted phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 7°F (-13.9°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

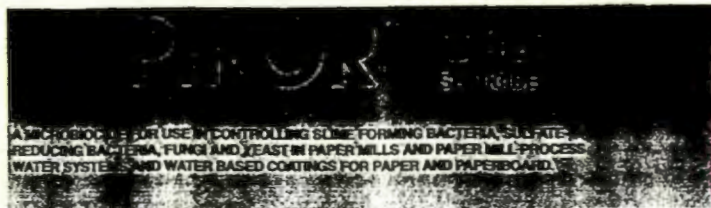
Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT MATERIAL SAFETY DATA SHEET FOR THIS  
PRODUCT.**



**NOTICE**

Do Not Ship or Store  
with Food, Feeds, Drugs,  
or Clothing



Active Ingredient: Glutaraldehyde 42.5%  
Alkyl C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10% 7.5%  
Inert Ingredients: dimethyl benzyl ammonium chloride 50.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER  
FIRST AID**

**If swallowed:**

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

**If in eyes:**

- Hold eyes open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lens(es).
- Call a poison control center or a doctor immediately for treatment advice.

**If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

**If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.  
1-800-258-CHEM  
\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-  
EPA Est. No. 10352-WV-2  
L72107 (C 07/01)  
Made in USA  
PE0701

CONTAINER SIZE	CONTAINER SIZE	SHIPPING	CORROSIVE LIQUID ADD'G ORGANIC, H.D.S.
55 GALLONS	5 GALLONS	NAME	(CONTAINS GLUTARALDEHYDE)
55 POUNDS	42 POUNDS	HAZARD CLASS	ID NUMBER
NET WEIGHT	NET WEIGHT		UN 3295

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call collect 989-636-4400.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS**

PIRORM 842 SLMicide should be added to a paper making system at a point of uniform mixing such as the thin or thick stock chest, save-all tank, process tank or white-water tank.

**Initial Dose:** When the system is noticeably contaminated, add 0.5 to 3.0 lbs. of PIRORM 842 SLMicide per ton or 0.25 to 1.5 kg of PIRORM 842 SLMicide per metric ton of pulp or paper (dry basis) as a continuous or slug dose. Repeat until control is achieved. Heavily loaded systems should be boiled out prior to initial treatment.

**Subsequent Dose:** When microbial control is evident, add 0.3 to 2.0 lbs. of PIRORM 842 SLMicide per ton or 0.5 to 1.0 kg of PIRORM 842 SLMicide per metric ton of pulp or paper (dry basis) as necessary to maintain control.

**WATER BASED COATINGS, PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD**

**Note:** For use in non-food coatings only.

Use from 0.1 to 0.6 lb. of PIRORM 842 SLMicide per 1,000 lbs. dry powder to produce a concentration of 100 to 600 ppm as product (based on slurry solids) in the mixed slurry.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open burning is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedure approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

**ACCEPTED**

OCT 12 2001

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide registration  
EPA Reg. No. 464-212



10/24/02

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

66171-7 SYNERGIZE

PC CODE	PERCENT	CHEMICAL NAME
43901	07.0000	Glutaraldehyde
69175	26.0000	Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16, 1%C18)

STATUS	SITE CODE	SITE NAME
ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	53006	SWINE (MEAT ANIMAL)
ACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
ACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	56020	ZOO ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	58006	HATCHERY EQUIPMENT
ACTIVE	58007	HATCHERIES
INACTIVE	60000	DAIRY FARM MILK HANDLING FACILITIES & EQUIPMENT (ALL/UNSPEC)
INACTIVE	60005	MILKING EQUIPMENT
ACTIVE	61000	FARM OR AGRICULTURAL STRUCTURES AND EQUIPMENT (UNSPECIFIED)
INACTIVE	61001	FARM OR AGRICULTURAL STRUCTURES/PREMISES (USE UNSPECIFIED)
ACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
ACTIVE	61007	MUSHROOM HOUSE ENVIRONS AND EQUIPMENT (EMPTY)
INACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
INACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	64000	WOOD PROTECTION TRT TO EXIST BUILDINGS OR PARTS OF BUILDINGS
ACTIVE	64001	WOOD PROTECTION TRT TO UNSEASONED FOREST PRODUCTS
ACTIVE	64002	WOOD PROTECTION TRT TO SEASONED FOREST PRODUCTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	64010	WOOD PROTECTION TRT TO FOREST PRODUCTS BY PRESSURE
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65011	SWIMMING POOL WATER SYSTEMS
ACTIVE	65012	INDUSTRIAL WASTE DISPOSAL SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
INACTIVE	70007	AUTOMOBILES, TAXIS, LIMOUSINES, RECREATIONAL VEHICLES & TIRES
INACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
INACTIVE	71001	BAKERIES
INACTIVE	71002	BOTTLING PLANTS
INACTIVE	71004	CANNERIES AND FROZEN FOOD PLANTS
INACTIVE	71005	MILK PROCESSING PLANTS
ACTIVE	71008	MEAT PROCESSING PLANTS
ACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
INACTIVE	71019	BEVERAGE PROCESSING PLANTS
INACTIVE	71022	FISH AND SEA FOOD PROCESSING PLANTS
INACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	72006	EATING ESTABLISHMENTS EQUIPMENT AND UTENSILS
INACTIVE	73002	FOOD STORES AND MARKETS
INACTIVE	73007	FOOD MARKETING, STORAGE & DISTRIBUTION EQUIPMENT & UTENSILS
ACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
INACTIVE	74008	HOSPITAL CRITICAL PREMISES (E.G. OPERATING ROOMS)
INACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
INACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
INACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)

## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16, 1%C18)

## STATUS SITE CODE SITE NAME

INACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
INACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES
INACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	81015	TEXTILES, FIBERS, CORDAGE (PRESERVATIVE/ADDITIVE INCORP)
INACTIVE	86003	HUMAN CLOTHING
INACTIVE	86005	HUMAN FOOTWEAR
INACTIVE	87006	LAUNDRY (HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87007	DIAPERS (PRESOAK, HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87008	LAUNDRY EQUIPMENT
ACTIVE	88003	BATHROOM PREMISES
INACTIVE	88004	TOILET BOWLS AND URINALS
INACTIVE	88005	TOILET TANKS, OR WATER CLOSETS
ACTIVE	88006	PORTABLE TOILETS, LATRINE BUCKETS, AND CHEMICAL TOILETS
INACTIVE	88009	DIAPER PAILS
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
INACTIVE	90014	HEW (FDA/BVM) (FOR PEST CLAIMS ADMINISTERED BY FDA OR BVM)
INACTIVE	90016	NO SITE. USE WHEN NO SITE IS ASSOCIATED WITH PESTS
INACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
INACTIVE	97000	SURFACES TREATMENTS (ALL OR UNSPECIFIED)
INACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
INACTIVE	97002	HARD POROUS SURFACE TREATMENTS
ACTIVE	97005	WOOD SURFACE TREATMENTS (SEASONED/UNPAINTED)
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS

## Chemistry Data Report

Active Ingredient Code: 69175  
-----

Full Chemical Name:

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16,  
1%C18)

Reregistration Case No.: 0350

FIFRA 88 List: A

Case Name:

ADBAC

Toxicology Caswell Nr.:

CAS Number: 68391-01-5

Product Manager: 31 Velma Noble

Review Manager: AntiMicrobial Div.

OCM Compliance Manager:

Chemical Name Type: Report Chemical Name

Type Synonymous Name  
-----

R CAS Reg. No. 68391-01-5

S Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl,  
chlorides

T Maquat LC12S-50%



## Chemistry Data Report

Active Ingredient Code: 69105  
-----

## Full Chemical Name:

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

Reregistration Case No.: 0350

FIFRA 88 List: A

Case Name:

ADBAC

Toxicology Caswell Nr.: 016E

CAS Number: 68424-85-1

Product Manager: 31 Velma Noble

Review Manager: AntiMicrobial Div.

OCM Compliance Manager:

Chemical Name Type: Report Chemical Name

Type Synonymous Name  
-----

R CAS Reg. No. 68424-85-1

S C12-16-alkylbenzyltrimethylammonium chloride

S Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl,  
chlorides (CA INDEX NAME)

T Hyamine 3500

T Barquat MB-50 (also MB-80)

T Bioquat 80 (also 501)

T BTC 835

T Zephiran

T BTC 885, component of (with 069149, 069165, 069166)

T Variquat 50MC (also 80MC, 80ME)

T Bardac 205 M, component of (with 069105, 069165, 069166. 069149)

T Bardac 205M (069105+069165+069166+069149)

## SITES ON WHICH THIS CHEMICAL CAN BE USED 069105

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

STATUS	SITE CODE	SITE NAME
INACTIVE	01014	GRAPES (ALL OR UNSPECIFIED)
INACTIVE	01016	STRAWBERRIES
ACTIVE	02000	CITRUS FRUITS (ALL OR UNSPECIFIED)
INACTIVE	04001	APPLES
INACTIVE	04003	PEARS
INACTIVE	05002	CHERRIES
INACTIVE	05003	NECTARINES
INACTIVE	05004	PEACHES
INACTIVE	05005	PLUMS
INACTIVE	05006	PRUNES
INACTIVE	11005	TOMATOES
ACTIVE	14013	POTATOES
INACTIVE	28006	CORN, FIELD AND/OR FORAGE (ALL OR UNSPECIFIED)
INACTIVE	28007	COTTON (ALL OR UNSPECIFIED)
INACTIVE	28015	PEANUTS (ALL OR UNSPECIFIED)
INACTIVE	28020	SUGAR BEETS (ALL OR UNSPECIFIED)
ACTIVE	28024	VEGETABLES (ALL OR UNSPECIFIED)
ACTIVE	28025	FRUITS (ALL OR UNSPECIFIED)
ACTIVE	31003	ORNAMENTAL FLOWERING PLANTS (ALL OR UNSPECIFIED)
INACTIVE	31258	PHALAENOPSIS ORCHIDS
ACTIVE	32000	ORNAMENTAL PLANTS (HERB & WOODY TYPES) (ALL OR UNSPECIFIED)
ACTIVE	40005	SOIL APPLICATION (HOTBED, COLDFRAME GREENHOUSE) (CROP UNSPEC)
ACTIVE	43044	ANIMAL FEED (ALL OR UNSPECIFIED)
ACTIVE	45003	CONTAINERS (FEED/FOOD-EMPTY) (RAW AGRICULTURAL COMMODITIES)
ACTIVE	45004	CONTAINERS (PROCESSED FEED/FOOD-EMPTY)
ACTIVE	50000	DAIRY ANIMALS (ALL OR UNSPECIFIED)
INACTIVE	50002	DAIRY CATTLE (ALL OR UNSPECIFIED)
ACTIVE	50003	DAIRY CATTLE, LACTATING
ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	52003	CATTLE (ALL OR UNSPECIFIED)
INACTIVE	52013	SHEEP (ALL OR UNSPECIFIED)
ACTIVE	53006	SWINE (MEAT ANIMAL)
INACTIVE	53010	FISH (MEAT ANIMAL)
ACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	54002	CATS (ALL OR UNSPECIFIED) (PETS)
ACTIVE	54003	DOGS (ALL OR UNSPECIFIED)
ACTIVE	54010	BIRDS (ALL OR UNSPECIFIED)
INACTIVE	54050	REPTILES (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	55008	TURKEYS (ALL OR UNSPECIFIED)
INACTIVE	55013	POULTRY (MEAT ANIMAL)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
ACTIVE	56005	HORSES
ACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	56020	ZOO ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	58000	COMMERCIAL EGG HANDLING EQUIPMENT
ACTIVE	58001	COMMERCIAL EGG WASHING TREATMENTS
ACTIVE	58002	EGG ROOMS
ACTIVE	58004	HATCHING EGG TREATMENT



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069105

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

STATUS SITE CODE SITE NAME

ACTIVE	58005	HATCHING EGG HANDLING ROOMS
ACTIVE	58006	HATCHERY EQUIPMENT
ACTIVE	58007	HATCHERIES
ACTIVE	60000	DAIRY FARM MILK HANDLING FACILITIES & EQUIPMENT (ALL/UNSPEC)
INACTIVE	60003	DAIRY FARM MILK STORAGE ROOMS
ACTIVE	60004	MILKING STALLS OR PARLORS (EXCLUDING DAIRY BARNS)
ACTIVE	60005	MILKING EQUIPMENT
ACTIVE	61001	FARM OR AGRICULTURAL STRUCTURES/PREMISES (USE UNSPECIFIED)
ACTIVE	61002	POTATO SEED PIECE STORAGE PREMISES AND HANDLING EQUIPMENT
ACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
ACTIVE	61006	GREENHOUSE ENVIRONS AND EQUIPMENT (EMPTY)
ACTIVE	61007	MUSHROOM HOUSE ENVIRONS AND EQUIPMENT (EMPTY)
INACTIVE	61009	BARNS (USE UNSPECIFIED)
ACTIVE	61015	GREENHOUSES (IN USE) (CROP UNSPECIFIED, OR EXTERIOR TRT)
ACTIVE	61016	FISH HATCHERY BUILDINGS AND AREAS (NON-AQUATIC)
ACTIVE	63000	HOUSEHOLD OR DOMESTIC DWELLINGS (ALL OR UNSPECIFIED)
ACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
ACTIVE	63003	HOUSEHOLD OR DOMESTIC DWELLINGS (OUTDOOR)
INACTIVE	63006	HOUSEHOLD OR DOMESTIC DWELLING FOOD HANDLING AREAS
ACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	63009	HOUSEHOLD SICKROOM
ACTIVE	64000	WOOD PROTECTION TRT TO EXIST BUILDINGS OR PARTS OF BUILDINGS
ACTIVE	64001	WOOD PROTECTION TRT TO UNSEASONED FOREST PRODUCTS
ACTIVE	64002	WOOD PROTECTION TRT TO SEASONED FOREST PRODUCTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	64010	WOOD PROTECTION TRT TO FOREST PRODUCTS BY PRESSURE
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65008	PULP AND PAPER MILL SYSTEMS
INACTIVE	65009	POULTRY DRINKING WATER
ACTIVE	65010	REVERSE OSMOSIS WATER SYSTEMS
ACTIVE	65011	SWIMMING POOL WATER SYSTEMS
ACTIVE	65012	INDUSTRIAL WASTE DISPOSAL SYSTEMS
ACTIVE	65013	DRAINAGE SYSTEMS (ALL OR UNSPECIFIED)
ACTIVE	65015	HUMAN DRINKING WATER SYSTEMS (POTABLE)
ACTIVE	65016	AIR CONDITIONER/REF CONDENSATE/FAN COIL DRAIN WATER SYSTEMS
ACTIVE	65017	HUMIDIFIER WATER
ACTIVE	65018	AIR WASHER WATER SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS
ACTIVE	65023	ORNAMENTAL PONDS, FOUNTAINS AND AQUARIA
ACTIVE	65025	SECONDARY OIL RECOVERY INJECTION WATER
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
ACTIVE	65030	DOMESTIC AND COMMERCIAL NONPOTABLE WATER (WHIRLPOOL BATH)
ACTIVE	65033	SWAMPS, MARSHES, BOGS, AND STANDING WATER (PERMANENT)
ACTIVE	65043	METALWORKING MACHINERY COOLANT SYSTEMS
ACTIVE	66000	UNCULTIVATED AGRICULTURAL AREAS (ALL OR UNSPECIFIED)
ACTIVE	67001	AIRPORTS AND LANDING FIELDS
ACTIVE	67002	RECREATIONAL AREAS



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069105

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

STATUS	SITE CODE	SITE NAME
ACTIVE	67005	RIGHTS-OF-WAY (RAILROAD)
ACTIVE	67006	RIGHTS-OF-WAY (UTILITY)
ACTIVE	70000	COMMERCIAL TRANSPORTATION FACILITIES (ALL OR UNSPECIFIED)
ACTIVE	70001	AIRCRAFT (NON FEED/FOOD)
ACTIVE	70002	BUSES (NONFEED/NONFOOD)
ACTIVE	70004	SHIPS, BOATS, SHIPHOLDS (ALL OR UNSPECIFIED)
ACTIVE	70005	RAILWAY CARS (NONFEED/NONFOOD)
ACTIVE	70006	TRUCKS (NONFEED/NONFOOD)
ACTIVE	70007	AUTOMOBILES, TAXIS, LIMOUSINES, RECREATIONAL VEHICLES & TIRES
ACTIVE	70027	AIRCRAFT (ALL OR UNSPECIFIED)
ACTIVE	70028	BUSES (ALL OR UNSPECIFIED)
ACTIVE	70031	COMMERCIAL TRANSPORTATION FACILITIES (FEED/FOOD-EMPTY)
ACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
ACTIVE	71001	BAKERIES
ACTIVE	71002	BOTTLING PLANTS
ACTIVE	71003	BREWERIES
ACTIVE	71004	CANNERIES AND FROZEN FOOD PLANTS
ACTIVE	71005	MILK PROCESSING PLANTS
ACTIVE	71006	FEED MILLS AND STORES
ACTIVE	71007	FRESH FRUIT AND VEGETABLE PACKING/PROCESSING PLANTS
ACTIVE	71008	MEAT PROCESSING PLANTS
ACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
INACTIVE	71010	WINERIES AND WINE CELLARS
ACTIVE	71012	EGG PROCESSING PLANTS
INACTIVE	71013	CANDY PLANTS AND CONFECTIONARY COMPANIES
ACTIVE	71019	BEVERAGE PROCESSING PLANTS
ACTIVE	71022	FISH AND SEA FOOD PROCESSING PLANTS
ACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	72002	EATING ESTABLISHMENT FOOD SERVING AREAS
ACTIVE	72006	EATING ESTABLISHMENTS EQUIPMENT AND UTENSILS
ACTIVE	73000	FOOD MARKETING, STORAGE AND DISTRIBUTION FACILITIES
ACTIVE	73001	FOOD DISPENSING EQUIPMENT
ACTIVE	73002	FOOD STORES AND MARKETS
ACTIVE	73003	MEAT, POULTRY, AND FISH MARKETS
ACTIVE	73007	FOOD MARKETING, STORAGE & DISTRIBUTION EQUIPMENT & UTENSILS
ACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
ACTIVE	74008	HOSPITAL CRITICAL PREMISES (E.G. OPERATING ROOMS)
ACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
ACTIVE	74010	HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
ACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
ACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)
ACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
ACTIVE	74025	MEDICAL WASTE
ACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	75002	BARBER AND BEAUTY SHOP EQUIPMENT
ACTIVE	76001	MORGUES, MORTUARIES AND FUNERAL HOME PREMISES
ACTIVE	76002	MORGUES, MORTUARIES AND FUNERAL HOME EQUIPMENT
INACTIVE	76003	MORGUES, MORTUARIES AND FUNERAL HOME INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069105

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

## STATUS SITE CODE SITE NAME

STATUS	SITE CODE	SITE NAME
ACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	77004	COMMERCIAL STORAGES OR WAREHOUSES
ACTIVE	81001	ADHESIVES (PRESERVATIVE INCORPORATION)
ACTIVE	81002	COATINGS (PRESERVATIVE INCORPORATION)
ACTIVE	81004	FUELS (ADDITIVE INCORPORATION)
INACTIVE	81005	LEATHER PRODUCTS AND HIDES (PRESERVATIVE INCORPORATION)
INACTIVE	81007	METALWORKING CUTTING FLUIDS (PRESERVATIVE INCORPORATION)
ACTIVE	81008	OIL RECOVERY DRILL MUDS, PACKER FLUIDS (PRESERVATIVE INCORP)
ACTIVE	81010	PAPER AND PAPER PRODUCTS (PRESERVATIVE/ADDITIVE INCORP)
ACTIVE	81011	PLASTIC PRODUCTS (PRESERVATIVE/ADDITIVE INCORPORATION)
ACTIVE	81013	RUBBER PRODUCTS (PRESERVATIVE/ADDITIVE INCORPORATION)
ACTIVE	81014	SPECIALITY INDUSTRIAL PRODUCTS (PRESERVATIVE INCORPORATION)
INACTIVE	81015	TEXTILES, FIBERS, CORDAGE (PRESERVATIVE/ADDITIVE INCORP)
ACTIVE	81016	WET-END, INDUSTRIAL PROCESS CHEMICALS (PRESERVATIVE INCORP)
ACTIVE	86001	HUMAN BEDDING
ACTIVE	86002	HUMAN BODY, HAIR, CLOTHING OR FOOTWEAR WHILE BEING WORN
ACTIVE	86003	HUMAN CLOTHING
ACTIVE	86004	HUMAN FACE GEAR
ACTIVE	86005	HUMAN FOOTWEAR
ACTIVE	86006	HUMAN HEADGEAR
ACTIVE	86010	HUMAN CAMPING EQUIPMENT
ACTIVE	86012	HUMAN GROOMING INSTRUMENTS
ACTIVE	87006	LAUNDRY (HOSPITAL, COMMERCIAL, HOUSEHOLD)
ACTIVE	87007	DIAPERS (PRESOAK, HOSPITAL, COMMERCIAL, HOUSEHOLD)
ACTIVE	87008	LAUNDRY EQUIPMENT
INACTIVE	87009	DUST MOPS/CLOTH/TOOL COVERS
ACTIVE	87010	CARPETS (HOSPITAL, COMMERCIAL, HOUSEHOLD)
ACTIVE	88003	BATHROOM PREMISES
ACTIVE	88004	TOILET BOWLS AND URINALS
ACTIVE	88006	PORTABLE TOILETS, LATRINE BUCKETS, AND CHEMICAL TOILETS
ACTIVE	88007	VEHICULAR HOLDING TANKS
ACTIVE	88009	DIAPER PAILS
ACTIVE	89000	REFUSE AND SOLID WASTE SITES (ALL OR UNSPECIFIED)
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
ACTIVE	89002	REFUSE AND SOLID WASTE TRANSPORTATION AND HANDLING EQUIPMENT
ACTIVE	89003	GARBAGE DUMPS
ACTIVE	89005	HOUSEHOLD TRASH COMPACTORS
ACTIVE	89006	GARBAGE OR FOOD DISPOSAL UNITS
ACTIVE	90001	MILITARY USE ONLY-OUTSIDE OF UNITED STATES (NO SPECIFIC SITE)
ACTIVE	90003	CADAVERS AND CASKETS
ACTIVE	90005	FILTERS (AIR/AIR CONDITIONER/FURNACE/AIR DUCTS)
ACTIVE	90006	CUSPIDORS OR SPITTOONS
INACTIVE	90011	ANT DENS/HILLS/MOUNDS (ALL OR UNSPECIFIED)
ACTIVE	90014	HEW (FDA/BVM) (FOR PEST CLAIMS ADMINISTERED BY FDA OR BVM)
INACTIVE	90015	AERIAL APPLICATION
ACTIVE	90016	NO SITE. USE WHEN NO SITE IS ASSOCIATED WITH PESTS
ACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
ACTIVE	90019	AIR TREATMENT
ACTIVE	97000	SURFACES TREATMENTS (ALL OR UNSPECIFIED)



10/24/02

REFERENCE FILES SYSTEM

PAGE 5

SITES ON WHICH THIS CHEMICAL CAN BE USED 069105

Alkyl\* dimethyl benzyl ammonium chloride \*(50%C14, 40%C12, 10%C16)

STATUS SITE CODE SITE NAME

---

ACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
ACTIVE	97002	HARD POROUS SURFACE TREATMENTS
INACTIVE	97005	WOOD SURFACE TREATMENTS (SEASONED/UNPAINTED)
INACTIVE	97006	LEATHER SURFACE TREATMENTS
INACTIVE	97007	FABRIC SURFACE TREATMENTS
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS
INACTIVE	99002	PESTICIDE PRODUCTS FOR REPACKAGING ONLY

**BEST AVAILABLE COPY**

See MSDS for exposure limits of components.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through the skin. Harmful if inhaled. May cause skin sensitization.

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor. Do not swallow.

Wear goggles, protective clothing, and rubber gloves.  
Wash thoroughly with soap and water after handling.  
Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless the product is specifically designed and addressed as an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

PIROR® 842 Slimicide solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -14°C (7°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. Heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F can be tolerated but the preferred maximum storage temperature is about 80°F.

A spiral wound stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with Viton® is suitable for gaskets and packing.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. If these wastes cannot be disposed of by the user according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Response Division of the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Do not cut or fold on or near metal containers. Plastic Containers: May be incinerated, if allowed by state and local authorities. If burned, stay out of smoke. Metal Containers: Must not be incinerated.

**UNION  
CARBIDE**

**Piror®**

**842  
SLIMICIDE**

A MICROBICIDE CONTROLLING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA, FUNGI AND YEAST IN PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS AND WATER BASED COATINGS FOR PAPER AND PAPERBOARD

Active Ingredient: Glutaraldehyde ..... 42.5%  
Alkyl (C14 50%, C12 40%, C16 10%)  
dimethyl benzyl ammonium chloride ..... 7.5%  
Inert Ingredients: ..... 50.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

**IF SWALLOWED:** DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.

Notes to physician: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

**UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC.  
SPECIALTY CHEMICALS DIVISION**

39 Old Ridgebury Road Danbury, CT 06817-0001 EPA Est. No. 10352-WV-2  
EPA Reg. No. 10352- UCC-L72107 (A) /92)  
PIROR® is a registered trademark of Made in USA  
Union Carbide Corporation PEO592  
Net Weight 5 or 55 Gallons

DOT Shipping Name	CORROSIVE LIQUID, H.O.S. (CONTAINS GLUTARALDEHYDE)	UN 1780 IN LUBRIC	CONTAINER SIZE 30 "GALLONS	CONTAINER TYPE 5 GALLON (4)
HAZ Shipping Name	CORROSIVE LIQUID, H.O.S. (CONTAINS GLUTARALDEHYDE)	1780 IN LUBRIC	HAZ POUNDS NET WEIGHT	4 POUNDS NET WEIGHT

EMERGENCY CONTACT (24 HOURS PER DAY) IN U.S. 1-800-322-4357  
OUTSIDE U.S.A. 01-204-774-7687

**DIRECTIONS FOR**

It is a violation of Federal law to use this product in a way

**PAPER MILLS AND PAPER MILL PROCESS**  
PIROR® 842 Slimicide should be added to a paper mill such as the thin or thick stock chest, cover-all tank, or

**Initial Treatment:** When the system is reasonably clean add sufficient quantities of PIROR® 842 Slimicide as a control is achieved. Heavily fouled systems should be

**Subsequent dose:** When microbial control is evident, or per ton of pulp or paper (dry basis) as necessary to maintain

**WATER BASED COATINGS, PIGMENT FOR PAPER AND PAPERBOARD**

**Note:** For non-food contact use only. Add sufficient quantities of PIROR® 842 Slimicide to pulp by weight of the formulated slurry (1-5 lbs. of PIROR®)

DEC 31 1992

10352-42

**LIMITED WARRANTY**

The manufacturer warrants that this product conforms to the product as represented by the purchaser and that the purchaser has not been misled in any manner or in any state or order of MAKES NO WARRANTY, NOR DOES IT AUTHORIZE ANY AGENT WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE, and the Buyer shall be solely responsible for, any use of this product in any manner which is inconsistent with the

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE BUYER'S OR THE REPAIRMENT OF THE PURCHASE PRICE FOR THE WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULT FROM THIS PRODUCT.



US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">EPA REGISTRATION NO. <b>10352-48</b></td> <td style="width: 50%; padding: 2px;">DATE OF ISSUANCE <b>DEC 31 1992</b></td> </tr> <tr> <td colspan="2" style="padding: 2px;">TERM OF ISSUANCE</td> </tr> <tr> <td colspan="2" style="padding: 2px;">NAME OF PESTICIDE PRODUCT  <b>Piror 842 Slimicide</b></td> </tr> </table>	EPA REGISTRATION NO. <b>10352-48</b>	DATE OF ISSUANCE <b>DEC 31 1992</b>	TERM OF ISSUANCE		NAME OF PESTICIDE PRODUCT  <b>Piror 842 Slimicide</b>	
EPA REGISTRATION NO. <b>10352-48</b>	DATE OF ISSUANCE <b>DEC 31 1992</b>						
TERM OF ISSUANCE							
NAME OF PESTICIDE PRODUCT  <b>Piror 842 Slimicide</b>							

**NOTICE OF PESTICIDE:** ☐ REGISTRATION ☒ REREGISTRATION  
 (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

**Union Carbide Chemicals and Plastics Company, Inc**  
**Specialty Chemicals Division**  
**PO BOX 670**  
**Bound Brook, NJ 08805**

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Re.registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

**This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:**

1. Submit/cite all data required for registration/ reregistration of your product under FIFRA section 3(c) (5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 10352-48".
  - b. Add the letter "s" to the phrase: Active Ingredient, since two active ingredients are declared on the label.
  - c. The following form of the ingredient statement is preferred:
 

Active Ingredients

Name of ingredient..... %

Name of ingredient..... %

Inert Ingredients..... %

**BEST AVAILABLE COPY**

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
---------------------------------	------

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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- 2 -

d. It is noted that the address of record doesn't correspond to the address declared on the label.

e. Revise the heading: "Hazards to Humans" to read:

Hazards to Humans and Domestic Animals

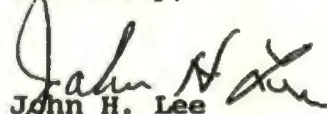
f. Revise " Net weight" to read: Net Contents.

g. Add a referral statement to read: "See side panel for additional precautionary statements" to the front panel.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (H7505C)

Enclosures

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



59894-4

08/14/2002

1/4

MASTER LABEL - REV-2

GKN-O FRONT PANEL

10-01-01

**GKN-O CONCENTRATE MICROBIOCIDES**

WATER TREATMENT MICROBIOCIDES FOR BUILDING AND INDUSTRIAL COOLING TOWERS, AND  
OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS.

Active Ingredients

Glutaraldehyde	25.75%
Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>18</sub> , 5% C <sub>12</sub> ) dimethyl benzyl ammonium chloride	6.25%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethyl benzyl ammonium chloride	6.25%

Other Ingredients

61.75%

TOTAL

100.00%

**ACCEPTED**

AUG 14 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-4

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**FIRST AID**

**IF IN EYES:** Hold eye open. Rinse slowly with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**IF INHALED:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**M & S RESEARCH, INC**  
**11500 WEST HILL DRIVE**  
**ROCKVILLE, MD 20852**

Manufactured by: Champion Technologies, Inc.  
3355 West Alabama, Suite 400  
Houston, TX 77098

EPA Registration No.	59894-4			
EPA Establishment No.	8133-TX-01	8133-TX-02	8133-CA-01	8133-LA-02

**NET CONTENTS**

Net Volume	Net Weight
5 U.S. Gals	45 lbs
55 U.S. Gals	500 lbs

**PRECAUTIONARY STATEMENTS**  
**DANGER**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**Keep Out of Reach of Children**

**Corrosive.** Causes severe eye and skin damage. May cause skin sensitization. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles, protective clothing and rubber gloves. Avoid breathing vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

---

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or any other waters, unless in accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product into sewer systems without previously notifying local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

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**STORAGE AND HANDLING**

GKN-O solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. To avoid freezing, locate the storage tank inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F can be tolerated, but the preferred maximum storage temperature is about 80° F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

---

**PESTICIDE DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

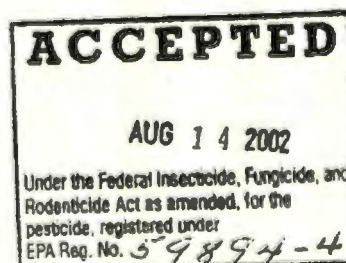
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**CONTAINER DISPOSAL**

Metal containers should be triple rinsed (or equivalent). Then, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities. Plastic containers may be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

---

**USE AS HYDROGEN SULFIDE SCAVENGER (NON-BIOCIDAL):** This product may also be used as a hydrogen sulfide scavenger in oil field processing and refining operations. For hydrogen sulfide scavenging applications, inject GKN-O full strength to attain concentrations of up to 500 ppm of active ingredient in target areas on a continuous basis or in slug treatment.





**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

**WATER FLOODS**

**GKN-O Microbiocide** should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. **Initial Treatment:** When the system is noticeably contaminated, add 100 - 200 ppm GKN-O (0.09 - 0.18 gallons GKN-O per 1000 gallons flood water). Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 20 - 100 ppm GKN-O (0.018 - 0.09 gallons GKN-O per 1000 gallons flood water) weekly, or as needed to maintain control.

**DRILLING MUDS**

**GKN-O Microbiocide** should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank. **Initial Treatment:** Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. **Maintenance Dosage:** As the total volume of the system increases due to increased well depths, maintain 50 - 1000 ppm GKN-O level by adding 0.19 to 3.8 gallons of GKN-O per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

**COMPLETION AND WORKOVER FLUIDS**

**GKN-O Microbiocide** should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

**PACKER FLUIDS**

**GKN-O Microbiocide** should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm GKN-O (0.19 - 2.3 gallons GKN-O per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

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HEALTH	2
FIRE	2
REACTIVITY	0
PERSONNAL PROTECTION	-

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IN A CHEMICAL EMERGENCY CALL CHEMTREC AT 1-800-424-9300; BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET. TO REQUEST A MATERIAL SAFETY DATA SHEET, CONTACT CHAMPION TECHNOLOGIES, INC. 713-431-2561, OR WRITE P.O. BOX 450499, HOUSTON, TEXAS 77245-0499

**ACCEPTED**

AUG 14 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-4

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**DIRECTIONS FOR USE**  
(continued from right panel 1)

**COOLING TOWERS, AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS**

GKN-O Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with GKN-O Microbiocide. Under these conditions, blow down should be discontinued for up to 24 hours.

**INTERMITTENT (SLUG DOSE) METHOD**

(1) Initial Dose: When the system is noticeably fouled, add 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system. Repeat until control is achieved.

(2) Subsequent Dose: When microbial control is evident, add 20 - 50 ppm (0.05 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

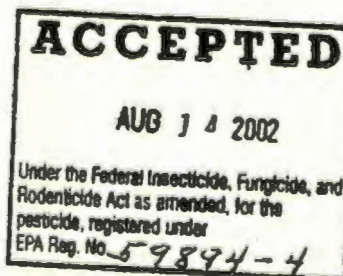
(3) Initial Dose: When the system is noticeably fouled, apply 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system.

(4) Subsequent Dose: Maintain this treatment level by starting a continuous feed of 10 - 50 ppm (0.025 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

**HEAT TRANSFER SYSTEMS**

(Evaporate condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

GKN-O Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.





59894-7

08/14/2002

1/4

MASTER LABEL REV.-2

K86 FRONT PANEL

10-01-01

**BACTRON K-86 MICROBIOCIDE**

WATER TREATMENT MICROBIOCIDE FOR BUILDING AND INDUSTRIAL COOLING TOWERS, AND  
OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS.

Active Ingredients

Glutaraldehyde	43.30%
Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>18</sub> , 5% C <sub>12</sub> ) dimethyl benzyl ammonium chloride	3.50%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethyl benzyl ammonium chloride	3.50%

Other Ingredients

TOTAL 49.70%

100.00%

**ACCEPTED**

AUG 14 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-7

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**FIRST AID**

**IF IN EYES:** Hold eye open. Rinse slowly with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**IF INHALED:** Move victim to fresh air. If not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**M & S RESEARCH, INC**  
**11600 WEST HILL DRIVE**  
**ROCKVILLE, MD 20852**

Manufactured by: Champion Technologies, Inc.  
3355 W. Alabama, Suite 400  
Houston, Texas 77098

EPA Registration No.

59894-7

EPA Establishment No.

8133-TX-01

8133-TX-02

8133-CA-01

8133-LA-02

**NET CONTENTS**

Net Volume

Net Weight

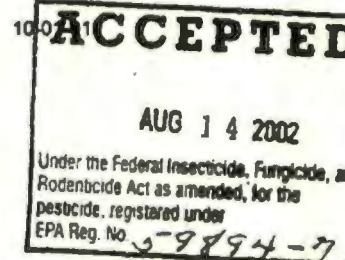
5 U.S. Gals

45 lbs

55 U.S. Gals

500 lbs





**PRECAUTIONARY STATEMENTS**  
**DANGER**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**Keep Out of Reach of Children**

**Corrosive.** Causes severe eye and skin damage. May cause skin sensitization. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles, protective clothing and rubber gloves. Avoid breathing vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or any other waters, unless in accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product into sewer systems without previously notifying local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

**STORAGE AND HANDLING**

**BACTRON K-86** solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. To avoid freezing, locate the storage tank inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F can be tolerated, but the preferred maximum storage temperature is about 80° F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

**PESTICIDE DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

Metal containers should be triple rinsed (or equivalent). Then, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities. Plastic containers may be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

**USE AS HYDROGEN SULFIDE SCAVENGER (NON-BIOCIDAL):** This product may also be used as a hydrogen sulfide scavenger in oil field processing and refining operations. For hydrogen sulfide scavenging applications, inject BACTRON K-86 full strength to attain concentrations of up to 500 ppm of active ingredient in target areas on a continuous basis or in slug treatment.



3/4

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

### WATER FLOODS

**BACTRON K-86** Microbiocide should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. **Initial Treatment:** When the system is noticeably contaminated, add 100 - 200 ppm BACTRON K-86 (0.09 - 0.18 gallons BACTRON K-86 per 1000 gallons flood water). Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 20 - 100 ppm BACTRON K-86 (0.09-0.18 gallons BACTRON K-86 per 1000 gallons flood water) weekly, or as needed to maintain control.

### DRILLING MUDS

**BACTRON K-86** Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank. **Initial Treatment:** Add 50 - 1000 ppm BACTRON K-86 (0.19 - 3.8 gallons BACTRON K-86 per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. **Maintenance Dosage:** As the total volume of the system increases due to increased well depths, maintain 50 - 1000 ppm BACTRON K-86 level by adding 0.19 to 3.8 gallons of BACTRON K-86 per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

### COMPLETION AND WORKOVER FLUIDS

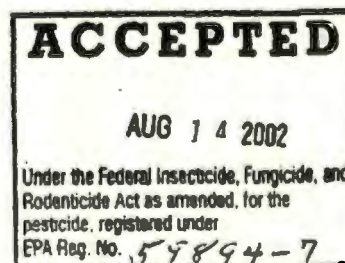
**BACTRON K-86** Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm BACTRON K-86 (0.19 - 3.8 gallons BACTRON K-86 per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

### PACKER FLUIDS

**BACTRON K-86** Microbiocide should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm BACTRON K-86 (0.19 - 2.3 gallons BACTRON K-86 per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

HEALTH	2
FIRE	2
REACTIVITY	0
PERSONNAL PROTECTION	-

IN A CHEMICAL EMERGENCY CALL CHEMTREC AT 1-800-424-9300; BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET. TO REQUEST A MATERIAL SAFETY DATA SHEET, CONTACT CHAMPION TECHNOLOGIES, INC. 713-431-2561, OR WRITE P.O. BOX 450499, HOUSTON, TEXAS 77245-0499



**DIRECTIONS FOR USE**  
(continued from right panel 1)

**COOLING TOWERS, AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS**

**BACTRON K-86** Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with **BACTRON K-86** Microbiocide. Under these conditions, blow down should be discontinued for up to 24 hours.

**INTERMITTENT (SLUG DOSE) METHOD**

(1) Initial Dose: When the system is noticeably fouled, add 50 - 100 ppm (0.10 - 0.20 gallons) of **BACTRON K-86** Microbiocide per 1000 gallons of water to the system. Repeat until control is achieved.

(2) Subsequent Dose: When microbial control is evident, add 20 - 50 ppm (0.04 - 0.10 gallons) of **BACTRON K-86** Microbiocide per 1000 gallons of water to the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

(3) Initial Dose: When the system is noticeably fouled, apply 50 - 100 ppm (0.10 - 0.20 gallons) of **BACTRON K-86** Microbiocide per 1000 gallons of water in the system.

(4) Subsequent Dose: Maintain this treatment level by starting a continuous feed of 10 - 50 ppm (0.02 - 0.10 gallons) of **BACTRON K-86** Microbiocide per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

**HEAT TRANSFER SYSTEMS**

(Evaporate condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

**BACTRON K-86** Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**ACCEPTED**

AUG 14 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-7



Reg # 10352-32

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 31

173

Union Carbide Corporation  
P. O. Box 670  
Bound Brook, NJ 08805

FEB 14 1995

Attention: Ms. Joan E. Young,  
Regulatory Affairs Manager

*referred  
label*

Subject: UCARCIDE 142 Antimicrobial  
EPA Registration Number 10352-32  
Your Submission Dated February 25, 1994  
EPA Received Date March 8, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to amend the Hazard Warnings Statements, is acceptable provided that you make the following labeling revisions:

The heading "Hazards to Humans and Domestic Animals" is acceptable.

Revise the statement "May cause allergic skin reaction" to read "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

The addition of the statement "Causes asthmatic signs and symptoms in hyper-reactive individuals" to the product labeling is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-305-6966.

Sincerely,

*WCF*

Walter C. Francis  
Acting Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

CONCURRENCES

SYMBOL	SURNAME	DATE

3  
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# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## **DANGER** **KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through skin. Harmful if inhaled. May cause allergic skin reaction. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been advised in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### **STORAGE AND HANDLING**

UCARCIDE® 142 Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic lined steel, polyethylene, stainless steel, or reinforced epoxy plastic equipment. This product freezes at about 14°C (57°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLO® is suitable for gaskets and packing.

### **LIMITED WARRANTY AND DISCLAIMER**

Manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that the product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions, and (c) that the directions, warnings and other statements on the label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**



Active Ingredients: Glutaraldehyde 42.5%  
Alky (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>10</sub> 10%)  
dimethyl benzyl ammonium chloride 7.5%  
Inert Ingredients: 50.0%  
100.0%

## **KEEP OUT OF REACH OF CHILDREN** **DANGER**

### **STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
**IF ON SKIN:** Immediately wash with plenty of soap and water. Get medical attention.  
**IF INHALED:** Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
**IF SWALLOWED:** DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
**NOTE TO PHYSICIAN:** Aspirin may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

### **SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.** **UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg No 10352-32  
UCARCIDE is a registered trademark  
of Union Carbide  
Net Contents 55 gallons

EPA Est. No. 10352-WV-2  
UCC-L90305(E 02/94)  
Made in USA  
PE0294

90305 PRODUCT ID OR INVENTORY	CONTAINER SIZE IN GALLONS	SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	
	55 GALLONS NET WEIGHT	HAZARD CLASS	ID NUMBER UN 1780	PG II

**EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)**

**OUTSIDE USA 01-304-744-3487**

FEB 14 1995

Union Carbide Corporation  
Danbury, CT 06817-0001  
1-352-32

**BEST AVAILABLE COPY**

It is a violation of Federal law to use

### **WATER FLOODS**

UCARCIDE® 142 Antimicrobial sh

Initial Treatment: When the system 142 Antimicrobial is the system (0 flood water). Repeat until control. Subsequent Dose: When microb. Antimicrobial (0.02 to 5.0 gallons l system weekly, or as needed 3 m.

### **DRILLING, COMPLETION,**

UCARCIDE® 142 Antimicrobial sh such as the circulating mud tank.

Initial Treatment: Add 50 to 1000 UCARCIDE® 142 Antimicrobial p severity of contamination. Maintenance Dosing: Maintain a by adding 0.2 to 4.0 gallons of UC as needed, depending on the ser-

### **PACKER FLUIDS**

UCARCIDE® 142 Antimicrobial s as a circulating holding tank. Add UCARCIDE® 142 Antimicrobial p severity of contamination. Seal if production tube.

### **GAS PRODUCTION AND**

UCARCIDE® 142 Antimicrobial s direct injection. The application a UCARCIDE® 142 Antimicrobial s application, it may be desirable to solvent immediately before use control.

### **GAS STORAGE WEL**

Individual injection wells should t Antimicrobial to produce a conce diluted by the water present in th (during the summer) injections.

Individual drips should be treated produce a concentration of 200 l water present in the drip. Injec-  
**HYDROTESTING**

Water used to hydrotest pipeline Antimicrobial (0.1 to 4.0 gallons water quality and length of time.

### **PIPELINE PIGGING**

Add UCARCIDE® 142 Antimicro water volume can be kept to a n Sufficient UCARCIDE® 142 Ant (0.1 to 1.0 gallon UCARCIDE® the pipeline and the

ST

**PESTICIDE DISPOSAL:** Do not is prohibited. Pesticide wastes a is a violation of Federal law. If th instructions, contact your State P Waste representative at the near **CONTAINER DISPOSAL:** Waste offer for recycling or recondition approved by state and local auth and local authorities, by burning incinerated. Do not cut or weld c



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**AGENTS**  
**STIC ANIMALS**

**CHILDREN**

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fuals

**SDS**

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r has been notified in writing  
ver systems without previously  
your State Water Board or

**IG**

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ght temperatures should be  
to 100°F (37.8°C) can be  
17°C).  
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**AIMER**

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UTHORIZE ANY AGENT OR  
SED OR IMPLIED, AND IT  
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and to, and the Buyer shall be  
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EXCLUSIVE LIABILITY FOR  
TING FROM THE USE OR  
Y IS BASED IN CONTRACT,  
ALL BE LIMITED, AT THE  
MENT OF THE PURCHASE  
H DAMAGES ARE CLAIMED.  
R SPECIAL, INDIRECT OR  
NO OF THIS PRODUCT.

**DO UNDERSTAND**  
**SAFETY DATA**  
**IT.**



Active Ingredients: Glutaraldehyde ..... 42.5%  
Alkyl (C<sub>12</sub> 50%, C<sub>12</sub> 40%, C<sub>10</sub> 10%)  
dimethyl benzyl ammonium chloride ..... 7.5%  
Inert Ingredients: ..... 50.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**ANGER**

**STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-32  
UCARCIDE is a registered trademark  
of Union Carbide  
Net Contents 55 gallons

EPA Est. No. 10352-WV-2  
UCC-L90305(E 02/94)  
Made In USA  
PE0294

CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)
55 GALLONS	HAZARD CLASS	ID NUMBER UN 1780
55 POUNDS NET WEIGHT		PQ II

ACCEPTED  
WITH COMMENTS  
IN FULL

**EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)**  
**OUTSIDE USA 01-304-744-3487**

FEB 14 1995

**BEST AVAILABLE COPY**

**DIRECTIONS FOR USE**  
**GENERAL CLASSIFICATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**WATER FLOODS**

UCARCIDE® 142 Antimicrobial should be added to a water flood system at a point of uniform mixing.

Initial Treatment: When the system is noticeably contaminated, add 100 to 5000 ppm UCARCIDE® 142 Antimicrobial to the system (0.1 to 5.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 to 5000 ppm UCARCIDE® 142 Antimicrobial (0.02 to 5.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons flood water) to the system weekly, or as needed to maintain control.

**DRILLING, COMPLETION, AND WORKOVER FLUIDS**

UCARCIDE® 142 Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 50 to 1000 ppm UCARCIDE® 142 Antimicrobial (0.2 to 4.0 gallons UCARCIDE® 142 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 50 to 1000 ppm UCARCIDE® 142 Antimicrobial by adding 0.2 to 4.0 gallons of UCARCIDE® 142 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

**PACKER FLUIDS**

UCARCIDE® 142 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 to 800 ppm UCARCIDE® 142 Antimicrobial (0.2 to 2.5 gallons UCARCIDE® 142 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and the production tube.

**GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS**

UCARCIDE® 142 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of the UCARCIDE® 142 Antimicrobial through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the UCARCIDE® 142 Antimicrobial with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

**GAS STORAGE WELLS AND SYSTEMS**

Individual injection wells should be treated with a sufficient quantity of UCARCIDE® 142 Antimicrobial to produce a concentration of 500 to 5000 ppm UCARCIDE® 142 Antimicrobial when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual dips should be treated with a sufficient quantity of UCARCIDE® 142 Antimicrobial to produce a concentration of 200 to 2000 ppm UCARCIDE® 142 Antimicrobial when diluted by the water present in the dip. Injections should be repeated yearly, or as needed to maintain control.

**HYDROTESTING**

Water used to hydrotest pipelines or vessels should contain 100 to 4000 ppm UCARCIDE® 142 Antimicrobial (0.1 to 4.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons water), depending on water quality and length of time the equipment will remain idle.

**PIPELINE PIGGING AND SCRAPING OPERATIONS**

Add UCARCIDE® 142 Antimicrobial to a slug of water immediately following the scraper (ideally the water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient UCARCIDE® 142 Antimicrobial should be added to produce a concentration of 0.1 - 1% (0.1 to 1.0 gallon UCARCIDE® 142 Antimicrobial per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

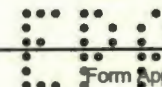
**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or residue is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.



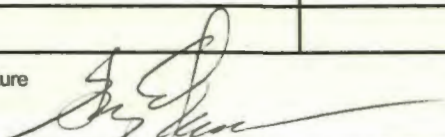
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460



Form Approved OMB No. 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date July 29, 2002			EPA Reg No./File Symbol 66171-7		Page 1 of 2
Applicant's/Registrant's Name & Address Preserve International, PO Box 3135, Turlock, CA 95381			Product Synergize		
Ingredient Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride, Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Product Identity an composition	44433701 X	Preserve International	Own	
61-2	Description of Beginning materials and process	44433701 X	Preserve International	Own	
61-3	Discussion of formation of impurities	44433701 X	Preserve International	Own	
62-1	Preliminary Analysis of product	44433703/4 X	Preserve International	Own	
62-2	Certification of ingredients	44433703/4 X	Preserve International	Own	
62-3	Analytical Method	44433703/4 X	Preserve International	Own	
63-2	Color	44433701 X	Preserve International	Own	
63-3	Physical State	44433701 X	Preserve International	Own	
63-4	Odor	44433701 X	Preserve International	Own	
63-7	Bulk Density	44433702 X	Preserve International	Own	
63-8	Solubility	44433701 X	Preserve International	Own	
63-12	pH	44433702 X	Preserve International	Own	
63-18	Viscosity	44433702 X	Preserve International	Own	
63-20	Corrosion Characteristics	44433701 X	Preserve International	Own	
Signature 			Name and Title Gary E. Gaumer, President		Date July 29, 2002

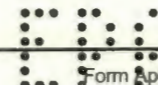
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

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401 M Street, S.W.  
WASHINGTON, D.C. 20460



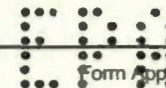
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DATA MATRIX

Date July 29, 2002			EPA Reg No./File Symbol 66171-7		Page 2 of 2
Applicant's/Registrant's Name & Address Preserve International, PO Box 3135, Turlock, CA 95381			Product Synergize		
Ingredient Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride, Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-1	Acute Oral LD 50	44569501	Preserve International	Own	
81-2	Acute Dermal LD 50	44569502	Preserve International	Own	
81-3	Acute Inhalation	44569505	Preserve International	Own	
81-4	Primary Eye irritation	44569504	Preserve International	Own	
81-5	Primary Dermal irritation	44569503	Preserve International	Own	
81-6	Dermal Sensitization	44569506	Preserve International	Own	
91-2	AOAC Use Dilution - p. aeruginosa	44433705/6	Preserve International	Own	
91-2	AOAC Use Dilution - s. aureus	44433705/6	Preserve International	Own	
91-2	AOAC Use Dilution - s. choleraesuis	44433705/6	Preserve International	Own	
91-2	Aspergillus Fumigatus	45147101	Preserve International	Own	
Signature			Name and Title Gary E. Gaumer, President		Date July 29, 2002



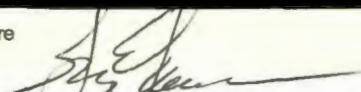
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460



Form Approved OMB No. 2070-0060

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DATA MATRIX

Date July 29, 2002		EPA Reg No./File Symbol 66171-7		Page 1 of 2	
Applicant's/Registrant's Name & Address Preserve International, PO Box 3135, Turlock, CA 95381		Product Synergize			
Ingredient Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride, Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
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			Preserve International	Own	
Signature 			Name and Title Gary E. Gaumer, President		Date July 29, 2002

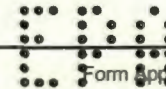
EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy





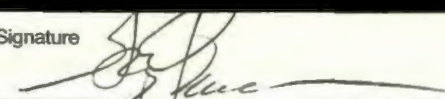
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460



Form Approved OMB No. 2070-0060

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Date July 29, 2002		EPA Reg No./File Symbol 66171-7		Page 2 of 2	
Applicant's/Registrant's Name & Address Preserve International, PO Box 3135, Turlock, CA 95381		Product Synergize			
Ingredient Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride, Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
			Preserve International	Own	
Signature 			Name and Title Gary E. Gaumer, President		Date July 29, 2002





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Preserve International, PO Box 3135, Turlock, CA 95381	EPA Registration Number/File Symbol 66171-7
Active Ingredient(s) and/or representative test compound(s) Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride	Date July 25, 2002
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Indoor non-food, indoor food, pulp, paper, oil field, water treatment	Product Name Synergize

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date July 25, 2002	Typed or Printed Name and Title Gary E. Gaumer, President
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
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**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Preserve International, PO Box 3135, Turlock, CA 95381	EPA Registration Number/File Symbol 66171-7
Active Ingredient(s) and/or representative test compound(s) Glutaraldehyde	Date July 25, 2002
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Indoor non-food, Indoor food, pulp, paper, oil field, water treatment,	Product Name Synergize

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

<input type="checkbox"/> I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	<input checked="" type="checkbox"/> I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).
--	---

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date July 25, 2002	Typed or Printed Name and Title Gary E. Gaumer, President
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United States  
Environmental Protection Agency  
Washington, DC 20460

# **Formulator's Exemption Statement** (40 CFR 152.85)

**Applicant's Name and Address**

Preserve International  
PO Box 3135  
Turlock, CA 95381

**EPA File Symbol/Registration Number**

66171-7

**Product Name**

Synergize

**Date of Confidential Statement of Formula (EPA Form 8570-4)**

July 25, 2002

As an authorized representative of the applicant for registration of the product identified above, I certify that:

**(1) This product contains the following active ingredient(s):**

Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride  
Glutaraldehyde

**(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging another product which contains that active ingredient which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.**

**(3) Indicate by checking (A) or (B) below which paragraph applies:**


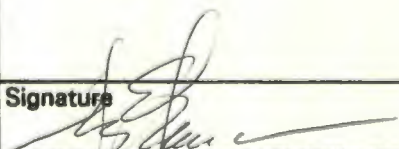
☒ (A) An accurate Confidential Statement of Formula (EPA FORM 8570-4) for the above identified product is attached to this statement. That formula statement indicates, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

**OR**

☐ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

**(4) The following active ingredients in this product qualify for the formulator's exemption.**

**Source**

Active Ingredient	Product Name	Registration Number
Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride		
Glutaraldehyde		
<b>Signature</b> 	<b>Name and Title</b> Gary E. Gaumer	<b>Date</b> 7/25/02

EPA Form 8570-27 (Rev. 8-95)

White - EPA copy  
Yellow - Applicant copy





Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

July 31, 2002

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Noble:

In response to your May 28, 2002 letter, please find the following:

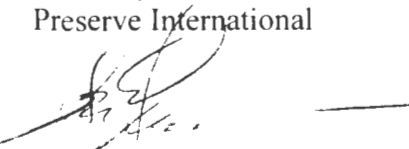
- 1) Current Data Matrix (Public and Private)
- 2) Current Certification With Respect to Citation of Data
- 3) Current Formulator's Exemption
- 4) 5 copies of the revised label

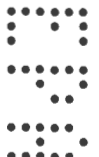
With respect to "Other Deficiencies" Number 4, the use rates were calculated on the basis of 100% of the actives and are proportionate to Union Carbide's Ucarcide 142, EPA Registration number 10352-32.

We have added the clarifier to the Pulp and Paper stating that Synergize is NOT approved for use in paper that contacts food.

If we may of further assistance, please feel free to contact me.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President



**FQPA**

Reviewer ID

Eric

Submission No.

5619365

Data Package No.

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 332

10 Descriptor (Amend/Resubmissions only) \_\_\_\_\_

15 Intrastate Call-in ☐ (Y) Yes

15 Child-resistant Packaging

☐ (C) Certification

☐ (N) No

☐ (S) Service Person

20 Registration Type:

☐ (R) Non-residential Use Only

☐ (1) Conditional

☐ (2) Unconditional

☐ (N) Not-Applicable

25 Proposed Classification: 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

35 Date on Application:

04 EPA Received Date:

40 Date Received by PM

0 7 2 2 0 12  
MO DAY YR

0 7 2 4 0 12  
MO DAY YR

0 7 2 1 0 12  
MO DAY YR

80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 22

Gary E. Gaumer  
President  
Preserve International  
P. O. Box 3135  
Turlock, CA 95381

Subject: Notification Per PR Notice 98 -10  
SYNERGIZE  
EPA Registration No. 66171-7  
Application Dated: July 22, 2002

Dear Gary E. Gaumer ,

This acknowledges receipt of your notification, submitted under the provision of PR Notice 98-10, FIFRA section 3 (c) 9.

**Proposed Notification**

- Alternate Brand Name "Synergize NP "
- Revised CSF for Synergize Alternate Formula #2 (Response to Agency letter dated August 1, 2001)

**General Comments**

Based on a review of the material submitted, the following comments apply:

The Confidential Statement of Formula Alternate #2 dated February 22, 2002 is acceptable and is in compliance with PR Notice 91-2 and the product label.

This application for notification is acceptable. A copy has been inserted in the file for future reference.

Should you have any questions or comments concerning this letter, please contact me at (703) 308-6422.

Sincerely,

*Janet L. Noble*

Welma Noble  
Product Manager (31)  
Regulatory Management Branch I

CONCURRENCES Antimicrobial Division (7510C)

SYMBOL	7510(C)						
SURNAME	A. Peters						
DATE	8/20/02						



Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

July 22, 2002

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Dear Ms. Noble:

In response to your August 1, 2001 letter, please find the enclosed revised CSF for Synergize's alternate formula # 2.

In addition, we are notifying the USEPA as per PR Notice 98-10 of an alternate brand name for Synergize. The alternate brand name is Synergize NP.

"This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

If I may be of further assistance, please feel free to contact me at 530-879-9220.

Thank you for your time and consideration.

Sincerely,  
Preserve International

Gary E. Gaumer  
President





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 66171-7	2. EPA Product Manager 31	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) SYNERGIZE	PM#	
5. Name and Address of Applicant (Include ZIP Code) Preserve International PO Box 3135 Turlock, CA 95381 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Alternate Brand Name as per PR Notice 98-10. Name to be Synergize NP

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	
				<input type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Gary E. Gaumer		Title President		Telephone No. (Include Area Code) 530-879-9220	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped) 
2. Signature 		3. Title President			
4. Typed Name Gary E. Gaumer		5. Date July 22, 2002			



## DESCRIPTION

SYNERGIZE NP is a multi-purpose disinfectant-cleanser. SYNERGIZE NP provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE NP provides effective disinfecting and cleaning in one operation. SYNERGIZE NP is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE NP is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE NP cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Laver, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premises, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE NP per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoes baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE NP per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE NP per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE NP per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE NP at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.



Manufactured By: Zephyr Cove, NV 89448 (209) 664-1607 www.preserveinternational.com

# SYNERGIZE NP CLEANER-DISINFECTANT

*Synergize NP cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Laver, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premises, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride ... 26.00%  
Glutaraldehyde ..... 7.00%  
INERT INGREDIENTS ..... 67.00%  
TOTAL ..... 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171- 7

EPA Establishment No.: 66171-TN-001

66171-CA-001

Patent Number: 5,891,922

## NFPA HAZARD CLASSIFICATION

HEALTH	FIRE	REACTIVITY	SPECIFIC
3	1	1	None

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE NP per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE NP per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, troughs, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE NP per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye; call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing; rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible; call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice; have person sip a glass of water if able to swallow, do not induce vomiting unless told to do so by the poison control center or doctor; do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons

Batch No.: \_\_\_\_\_





Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 - Bus: (530) 879-9220 - Fax: (530) 879-9212 • email: gegaumer@shocking.com

July 8, 2002

Ms. Tracy Lantz  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (PRN)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

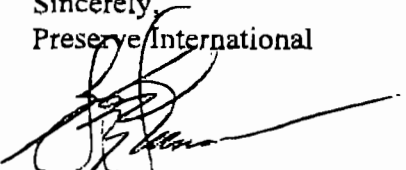
Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Lantz:

Preserve International hereby authorizes the United States Environmental Protection Agency (EPA) to discuss all matters relating to the November 5, 2001 and May 28, 2002 EPA correspondence, with Marc Mason of Mason Chemical.

If you should need further clarification or wish to discuss this matter with Preserve, please call me.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President

Cc Marc Mason

*Call Marc and answered  
his question on 7/11/02  
Tracy Lantz  
Team 31*

Reviewer ID

Tracy

Submission No.

561211

Data Package No.

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PH 31

Action Code

303

10 Descriptor (Amend/Resubmissions only)

5 Intrastate Call-in ☐ (Y) Yes ☐ (N) No

15 Child-resistant Packaging

☐ (C) Certification

☐ (S) Service Person

20 Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

25 Proposed Classification: 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

35 Date on Application:

01 2 01 1 0 12  
MO DAY YR

04 EPA Received Date:

01 3 0 4 02  
MO DAY YR

40 Date Received by PH

01 3 1 2 0 12  
MO DAY YR

80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DES

NDEB

TB

EEB

DATE SENT

DUE DATE

DATE RETURNED

RESPONSE CODE

RESPONSE DATE



MAY 28 2002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 28 2002

Mr. Gary Gaumer  
Preserve International  
315 Wall Street, Suite 1  
Chico, CA 95928

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: February 1, 2002  
EPA Received Dates: March 4, 2002

Dear Mr. Gary Gaumer:

The following amendment, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is unacceptable for the reasons given below:

- addition of new sites

**Major Deficiencies**

1. As identified in the Agency correspondence of 11/5/01, the addition of these new sites to the label requires the citation of data. Since your product qualifies for the Formulator's Exemption, you need only support the product specific data at this time. Submit a new product specific data matrix (internal and public file copies) and Certification with Respect to Citation of Data form. These forms must be submitted to support this amendment.

2. You have proposed the use of this product as a slimicide for the manufacture of pulp and paper. Your active ingredients are cleared for use as a slimicide in paper that contacts food according to 21 CFR 176.300. The inert ingredients in your Basic as well as all Alternate Formulas must be cleared in 21 CFR specifically for use in slimicides or for pulp and paper manufacturing. The citations which you have provided with this submission do not support this use. You have not provided evidence of the clearance for [REDACTED]

[REDACTED] Submit a highlighted copy of the 21 CFR citations for the clearance of these inert ingredients in your formulation.

CONCURRENCES							
SYMBOL	7510						
SURNAME	G. J. [REDACTED]						
DATE	5/28/02						



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Note: Glutaraldehyde is not cleared in 21 CFR 181.30 for use in the manufacture of paper which contacts food.

Revise the language in this section of the label to be in agreement with the directions for "Paper Mills and Paper Mill process Water Systems" on the label of Reg. No. 464-712 by including the same heading, restrictions and directions.

3. The following site is a new use for this product: cooling towers. Revise the language in this section of the label to be in agreement with the directions for "Air Washers and Industrial Scrubbing Systems/Recirculating Cooling and Process Water Systems" on the label of Reg. No. 464-693 by including the same heading, restrictions and directions.

In addition, provide the Agency with the rationale as to how you were able to establish the rate for cooling and process water use.

## Other Deficiencies

1. Revise the section on the first page of your label which identifies the sites on which this product may be used (i.e. poultry housing, turkey, breeder) such that this section includes a reference to each of the addition sites listed on the second page of the label.

2. Revise the following sections of the label such that the language is in agreement with PR Notice 2000-5:

Water Floods: "Add Synergize to the water flood system at a point..."

Drilling Muds: "Add Synergize to the drilling fluid..."

Completion and Workover Fluids: "Add Synergize to the packer fluid..."

Packer Fluids: "Add Synergize to the packer fluid..."

Gas Production and Transmission Pipelines and Systems: "Add Synergize to the gas production and ..." "Apply the product to ensure maximum..."

Gas Storage Wells and Systems: "Treat individual injection wells with sufficient quantity..." deleting the phrase: "should be treated".

Hydrotesting: "Water used to hydrotest pipelines or vessels *must* contain..."

3. Revise the following rates on your label such that your product is in agreement with other registered products which include these uses:

Water Floods: "When microbial control is evident add 20-100 ppm Synergize (0.06-.30 gallons Synergize per 1000 gallons flood water)"

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Drilling Muds: "Add 50-1000 ppm Synergize (0.7-14 gallons Synergize per 100 barrels of fluid)..." and "...level by adding 0.30-14 gallons of Synergize per 100 barrels of additional fluid..."

Completion and Workover Fluids: "Add 50-1000 ppm Synergize (0.7-14 gallons Synergize per 100 barrels of fluid)..."

Packer Fluids: "Add 50-600 ppm Synergize (0.7-8.0 gallons Synergize per 100 barrels of fluid)..."

4. The Agency is unable to determine the appropriate use rates for the following applications: gas production and transmission pipelines, gas storage wells and systems, hydrotesting, pipeline pigging and scraping, and paper mills and paper mill process water systems. Confirm that your rates are in agreement with other registered product for these active ingredients. Provide a rationale as to how you established your rates and the Reg. No.s of the referenced products.

5. Identify the number of gallons in a barrel (drilling muds, completion and workover fluids). Include this information on your label.

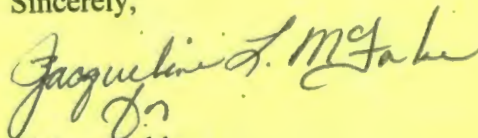
6. Revise the directions for "Veterinary Practice/Animal Care..." to read: "Remove all *animals and feeds* from premise..."

**General Comments**

There may be additional label comments once the information requested above has been submitted. Submit the information requested including data matrixes and data compensations forms along with revised labels which address the Agency concerns noted above.

Should you have any questions or comments concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble

Product Manager (31)

Regulatory Management Branch I

Antimicrobials Division (7510C)

7510C:T.Lantz:5/23/02:66171-7g

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride ... 26.00%  
Glutaraldehyde ... 7.00%

INERT INGREDIENTS ... 67.00%  
TOTAL ... 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7  
EPA Establishment No.: 66171-JN-001  
66171-CA-001

Patent Number: 5,891,922

## NFPA HAZARD CLASSIFICATION

HEALTH	FIRE	REACTIVITY	SPECIFIC
3	1	1	None

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS Hazards to humans and domestic animals

### DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE filter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye; call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing; rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible; call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice; have person sip a glass of water if able to swallow; do not induce vomiting unless told to do so by the poison control center or doctor; do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Manufactured By:  
**PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448 (209) 664-1607



#### WATER FLOODS:

Synergize should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. Initial Treatment: When the system is noticeably contaminated, add 100 - 200 ppm Synergize (0.30-0.60 gallons Synergize per 1000 gallons flood water). Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 20-100 ppm Synergize (0.03-.30 gallons SYNERGIZE per 1000 gallons flood water) weekly, or as needed to maintain control.

#### DRILLING MUDS:

SYNERGIZE should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank. Initial Treatment: Add 50 - 1000 ppm SYNERGIZE (0.3-6.0 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 50-1000 ppm SYNERGIZE level by adding 0.30-6.0 gallons of SYNERGIZE per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

#### COMPLETION AND WORKOVER FLUIDS:

SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm SYNERGIZE (0.30-6.0 gallons SYNERGIZE per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

#### PACKER FLUIDS:

SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm SYNERGIZE (0.30-3.60 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

#### GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS:

Synergize should be added to a gas production and transmission pipeline via direct injection. The application should be conducted to ensure maximum of distribution of Synergize through the internal surface of the pipeline. To facilitate application, it may be desirable to dilute Synergize with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

#### GAS STORAGE WELLS AND SYSTEMS:

Individual injection wells should be treated with a sufficient quantity of Synergize to produce a concentration of 500 - 5000 ppm Synergize when diluted by the water present in the formulation. Injections should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of Synergize to produce a concentration of 200 - 2000 ppm Synergize when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

#### HYDROTESTING:

Water used to hydrotest pipelines or vessels should contain 100 - 4000 ppm Synergize (0.3-12.0 gallons Synergize per 1000 gallons water) depending on water quality and length of time equipment will remain idle.

#### PIPELINE PIGGING AND SCRAPING OPERATIONS:

Add Synergize to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient Synergize should be added to produce a concentration of 0.1 - 1.0% (0.30-3.0 gallons Synergize per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

#### PULP AND PAPER:

For control of bacteria and associated slime in pulp, paper or paperboard systems use 0.25-1.5 lbs Synergize per ton of total paper (dry basis) production. Intermittent application to thick stock chests has proven most effective. Typical feed cycle would be 1 hour on at a dosage of 4.0 lbs/ton and then 7 hours off to give a total average feed of 0.5 lbs/ton of fiber.

Feed Synergize directly from the drum or diluted water. Application may be anywhere in the system prior to sheet formation or to the recirculating white water.

#### INITIAL APPLICATION FOR INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS: SLUG OR INTERMITTENT FEEDING:

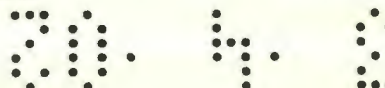
When growth is evident apply 7.5-15.2 fl ozs (19.5 ppm to 39 ppm) of this product per 1000 gallons of contained water. This dose may be repeated until control is achieved. When heavy growth is present system should be cleaned before treatment is begun.

#### SUBSEQUENT APPLICATION

When microbial control is evident apply 5 to 10 fl ounces (12.8 ppm to 25.6 ppm) of this product per 1000 gallons of contained water. The above directions should be followed once per week or as needed to maintain control.

#### VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOOS/PET SHOP/KENNELS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animal feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 1/2 ounce of Synergize per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.



NOTE TO THE JACKET

66171-7

5/24/02

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

[REDACTED], I asked this applicant to revise their language to be in agreement with the other labels.

Please see the 11/5/01 Agency letter for a listing of the sites which were identified as new uses for the quat PC 69175. One of these uses was found on another label for this same quat: cooling and process water systems. The other uses were found on labels for other quats, but all of these quats were found to be in the same grouping for the RED: 0350. Based on the fact that these uses had already been approved for other quats in the same grouping, it was decided that these uses were acceptable for this quat as well.

The rates for the uses in water floods, drilling muds, completion and workover fluids, as well as packer fluids were determine by comparing the concentration of the glutaraldehyde only in Reg. No. 59894-4. I had been told that it was the glut which was the antimicrobial agent in these applications.

Other helpful information:

[REDACTED]



previously  
10352-48

Use sites for 464-712 (stamped 10/12/01): "Controlling slime forming bacteria, sulfate reducing bacteria, fungi and yeast in paper mills & paper mill process water systems & water based coatings for paper and paperboard." (For non-food contact use only)

previously  
10352-32

Use sites for 464-701 (stamped 10/26/01): "Controlling sulfate reducing bacteria & slime bacteria in oil well drilling, oil field, gas production & transmission pipelines, gas storage fields, steam injection water holding tanks, flood water, injection water, holding pond, disposal well water, water holding, fuel storage, industrial recirculating water handling"



Tracy Lantz  
Team 31

66171-7nn

03/13/02

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

66171-7 SYNERGIZE

PC CODE	PERCENT	CHEMICAL NAME
43901	07.0000	Glutaraldehyde
69175	26.0000	Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)





## Product Formulation Data

10352-32 UCARCIDE 142 ANTIMICROBIAL

PC CODE	PERCENT	CHEMICAL NAME
43901	42.5000	Glutaraldehyde
69105	07.5000	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16)

50.0

product  
to support:water flood  
drilling muds  
packer fluids  
gas production  
gas storagehydro testing  
pipelineuse to determine  
rate for: gas production  
+ transmission pipelinegas storage wellshydro testingpipeline pigging + scrapingthese each contain quat(s)  
which are different from  
synergize (69175)Need to see entire  
label from  
jacket



Reg # 10352-32.

PM - 31

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Union Carbide Corporation  
P. O. Box 670  
Bound Brook, NJ 08805

*Will have to pull  
jackets to see  
entire label.*

FEB 14 1995

Attention: Ms. Joan E. Young,  
Regulatory Affairs Manager

Subject: UCARCIDE 142 Antimicrobial  
EPA Registration Number 10352-32  
Your Submission Dated February 25, 1994  
EPA Received Date March 8, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to amend the Hazard Warning Statements, is acceptable provided that you make the following labeling revisions:

The heading "Hazards to Humans and Domestic Animals" is acceptable.

Revise the statement "May cause allergic skin reaction" to read "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

The addition of the statement "Causes asthmatic signs and symptoms in hyper-reactive individuals" to the product labeling is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-305-6966.

Sincerely,

*WCF*

Walter C. Francis  
Acting Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

CONCURRENCES

69

SYMBOL



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through skin. Harmful if inhaled. May cause allergic skin reaction. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

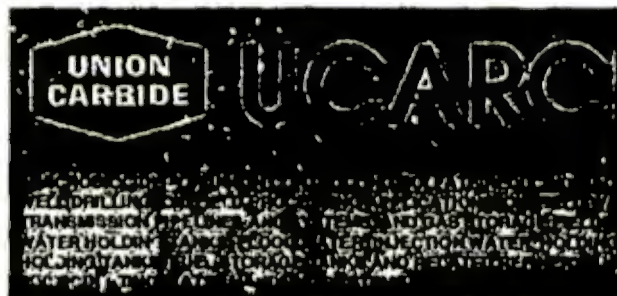
UCARCIDE® 142 Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -14°C (7°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLO® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**



Active Ingredients: Glutaraldehyde  
Alky' (C<sub>14</sub> 50%, C<sub>12</sub> 40%,  
dimethyl benzyl ammonii

Inert Ingredients: \_\_\_\_\_

**KEEP OUT OF REACH OF  
DANGER**

**STATEMENT OF PRACTICAL**

IF IN EYES: Immediately flush with plenty of water for at least 15 min  
IF ON SKIN: Immediately wash with plenty of soap and water. Get r  
IF INHALED: Remove to fresh air. If breathing is difficult, administer  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anyth  
urgency.

NOTE TO PHYSICIAN: Aspirator may cause lung damage. Probab  
use of gastric lavage.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS  
UNION CARBIDE C**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-32  
UCARCIDE is a registered trademark  
of Union Carbide  
Net Contents 55 gallons

90305	CONTAINER SIZE	SHIPPING NAME	ID N UP
	55 GALLONS		
ACCEPTED with COC in	500 POUNDS NET WEIGHT	HAZARD CLASS	

**EMERGENCY CONTACT (24 HOURS PER DAY): IN US  
OUTS**

FEB 14 1995

Union Carbide  
Product  
Safety  
Data  
Sheet

**BEST AVA**

10352-32



MENTS  
STIC ANIMALS

## CHILDREN

is. May be fatal if  
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## IDS

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## AIMER

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OR SPECIAL, INDIRECT OR  
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DO UNDERSTAND  
SAFETY DATA  
T.



Active Ingredients: Glutaraldehyde 42.5%  
Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride 7.5%  
Inert Ingredients: 50.0%  
100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

### UNION CARBIDE CORPORATION

39 Old Ridgebury Road • Danbury, CT 06817-0001

EPA Reg. No. 10352-32

UCARCIDE is a registered trademark

of Union Carbide

Net Contents 55 gallons

EPA Est. No. 10352-WV-2

UCC-L90305(E 02/94)

Made in USA

PE0294

90305 ACCEPTED with CORP. 1443 in EPA Reg. No. 10352-32	CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	
	55 GALLONS		ID NUMBER UN 1760	PG II
	500 POUNDS NET WEIGHT	HAZARD CLASS		

EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)

OUTSIDE USA 01-304-744-3487

FEB 14 1995

BEST AVAILABLE COPY

It is a violation of

WATER FLU  
UCARCIDE® 1

Initial Treatment  
142 Antimicrob  
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03/13/02

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

10352-31 AQUAR 514 WATER TREATMENT MICROBIOCIDES

PC CODE	PERCENT	CHEMICAL NAME
43901	14.0000	Glutaraldehyde
69105	02.5000	Alkyl* dimethyl benzyl ammonium chloride *(50%C14, 40%C12, 10%C16)

*idea to  
support water  
cooling towers  
(glut, different  
quat)*

*on which product  
should I  
base cooling  
tower rate?*



PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor. Do not swallow.  
Wear goggles, protective clothing, and rubber gloves.  
Wash thoroughly with soap and water after handling.  
Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

AQUACAR® 514 Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27°F (-3°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**

RECD LPA/CPP/DPD1



96 SEP 19 10 33  
**AQUACAR® 514**  
**WATER TREATMENT  
MICROBIOCIDES**

A MICROBIOCIDES FOR USE IN CONTROLLING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA, AND ALGAE IN AIRWASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, SERVICE WATER AND AUXILIARY SYSTEMS, RECIRCULATING COOLING AND PROCESS WATER SYSTEMS INCLUDING THOSE THAT CONTAIN REVERSE OSMOSIS MEMBRANES, AND WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANKS.

Active Ingredient: Glutaraldehyde 14.0%  
Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>10</sub> 10%)  
dimethyl benzyl ammonium chloride ..... 2.5%  
Inert Ingredients: ..... 83.5%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

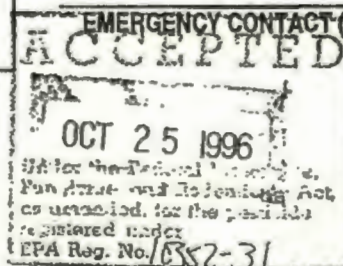
**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-31  
AQUACAR is a registered trademark  
of Union Carbide  
Net Contents 5 or 55 gallons

EPA Est. No. 10352-WV-2  
UCC-L14349 (F 09/96)  
Made in USA  
PE0996

14349 PRODUCT CODE	CONTAINER SIZE	CONTAINER SIZE
	55 GALLONS	5 GALLONS
	484 POUNDS	44 POUNDS
	NET WEIGHT	NET WEIGHT

**EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)  
OUTSIDE USA 01-304-744-3487**



**AIR WASHERS  
RECIRCULATING**

This product may be used continuously.

AQUACAR® 514 Water Treatment Microbiocides such as continuously. Badly fouled systems.

AQUACAR® 514 Water Treatment Microbiocides such as continuously. Badly fouled systems.

Initial Dose: When the Water Treatment Microbiocides are added to the water, the water treatment microbicide will be added to the water. Badly fouled systems.

Initial Dose: When the Water Treatment Microbiocides are added to the water, the water treatment microbicide will be added to the water. Badly fouled systems.

Subsequent Dose: A of AQUACAR® 514 Water Treatment Microbiocides.

Badly fouled systems.

**SERVICE WATER**

AQUACAR® 514 Water Treatment Microbiocides such as continuously. Badly fouled systems.

**HEAT TRANSFER**

(Evaporative Condensers, Postheaters and Water Treatment Microbiocides.)

AQUACAR® 514 Water Treatment Microbiocides such as continuously. Badly fouled systems.

AQUACAR® 514 Water Treatment Microbiocides such as continuously. Badly fouled systems.

PESTICIDE DISPOSAL is prohibited. Pesticide is a violation of Federal instructions, contact your representative at the CONTAINER DISPOSAL offer for recycling or is approved by state and local authorities. Incinerated. Do not



C PM 31 10352-31

10/11

ECO LPA/OPP/DPD1

96 SEP 19 10 33

# AQUACAR® 514

## WATER TREATMENT MICROBIOCIDES

CONTROLLING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA, AND INDUSTRIAL SCRUBBING SYSTEMS, SERVICE WATER AND AUXILIARY COOLING AND PROCESS WATER SYSTEMS INCLUDING THOSE THAT CONTAIN OILS, AND WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND

Ingredient: Glutaraldehyde 14.0%  
Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride ..... 2.5%  
Ingredients: 83.5%  
100.0%

## OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

With plenty of water for at least 15 minutes. Get immediate medical attention.  
Use of soap and water. Get medical attention.  
In case of air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
In case of VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
In case of skin contact. Wash immediately with plenty of water. Probable mucosal damage may contraindicate the

SEE LABEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**ION CARBIDE CORPORATION**  
Danbury, CT 06817-0001

EPA Est. No. 10352-WV-2  
UCC-L14349 (F 09/96)  
Made in USA  
PE0996

Remark

14349 PRODUCT CODE	CONTAINER SIZE	CONTAINER SIZE
	55 GALLONS	5 GALLONS
	484 POUNDS	44 POUNDS
	NET WEIGHT	NET WEIGHT

(24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)  
OUTSIDE USA 01-304-744-3487

## DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.

AQUACAR® 514 Water Treatment Microbicide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUACAR® 514 Water Treatment Microbicide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUACAR® 514 Water Treatment Microbicide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

### INTERMITTENT (SLUG DOSE) METHOD

Initial Dose: When the system is noticeably fouled, add 4.2 to 8.5 fluid ounces of AQUACAR® 514 Water Treatment Microbicide per 100 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 1.7 to 4.2 fluid ounces of AQUACAR® 514 Water Treatment Microbicide per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

### CONTINUOUS FEED METHOD

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUACAR® 514 Water Treatment Microbicide per 100 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 0.5 to 4.2 fluid ounces of AQUACAR® 514 Water Treatment Microbicide per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

### SERVICE WATER AND AUXILIARY SYSTEMS

AQUACAR® 514 Water Treatment Microbicide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

### HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUACAR® 514 Water Treatment Microbicide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

### INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACAR® 514 Water Treatment Microbicide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 20 to 96 fluid ounces (1.25 pints to 3 quarts) (1900 to 8000 ppm) AQUACAR® 514 Water Treatment Microbicide per 100 gallons of wastewater or sludge.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals.

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor. Do not swallow.  
Wear goggles, protective clothing, and rubber gloves.  
Wash thoroughly with soap and water after handling.  
Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

AQUICAR® 514 Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in heated phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 27°F (-2°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Split round stainless steel with TEFLON® is suitable for gaskets and packing.

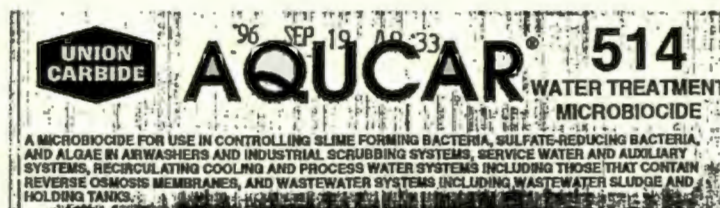
**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that the product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**

REC'D LPA/CPP/DPD1



Active Ingredient: Glutaraldehyde 14.0%  
Alkyl (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>10</sub> 10%)  
dimethyl benzyl ammonium chloride 2.5%  
Inert Ingredients: 83.5%  
100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

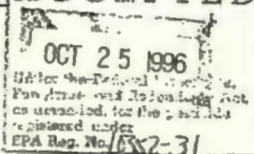
**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-31  
AQUICAR is a registered trademark  
of Union Carbide  
Net Contents 5 or 65 gallons

EPA Est. No. 10352-WV-2  
UCC-L14349 (F 08/86)  
Made in USA  
PE0996

14349 PRODUCT CODE	CONTAINER SIZE	CONTAINER SIZE
	65 GALLONS	5 GALLONS
	484 POUNDS	44 POUNDS
	NET WEIGHT	NET WEIGHT

**EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)  
OUTSIDE USA 01-304-744-3487**



**DIRECTIONS FOR USE  
GENERAL CLASSIFICATION**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/  
RECIRCULATING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washers and air-washer systems which have mist-eliminating components.

AQUICAR® 514 Water Treatment Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUICAR® 514 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUICAR® 514 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-modified reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

**INTERMITTENT (SLUG DOSE) METHOD**

Initial Dose: When the system is noticeably fouled, add 4.2 to 8.5 fluid ounces of AQUICAR® 514 Water Treatment Microbiocide per 100 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When the system is fouled, add 1.7 to 4.2 fluid ounces of AQUICAR® 514 Water Treatment Microbiocide per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

Initial Dose: When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUICAR® 514 Water Treatment Microbiocide per 100 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of AQUICAR® 514 Water Treatment Microbiocide per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

**SERVICE WATER AND AUXILIARY SYSTEMS**

AQUICAR® 514 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

**HEAT TRANSFER SYSTEMS**

(Evaporative Condensers, Dairy Sweetener Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUICAR® 514 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**INDUSTRIAL WASTEWATER SYSTEMS**

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUICAR® 514 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 30 to 98 fluid ounces (1.25 pints to 3 quarts) (1800 to 8000 ppm) AQUICAR® 514 Water Treatment Microbiocide per 100 gallons of wastewater or sludge.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide mixing with acids is dangerous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

## Product Formulation Data

59894-4 GKN-O

PC CODE	PERCENT	CHEMICAL NAME
43901	25.7500	Glutaraldehyde
69104	06.2500	Alkyl* dimethyl benzyl ammonium chloride *(60%C14, 30%C16, 5%C18, 5%C12)
69154	06.2500	Alkyl* dimethyl ethylbenzyl ammonium chloride *(68%C12, 32%C14)

use to determine  
rate + directions  
for water floods  
drilling needs  
completion + workover  
fluids  
packer fluids

product to  
support:

water flood  
drilling needs  
completion + workover fluids  
packer fluids

contains quats  
which are different  
from synergize (69175)



PM 31 59894-4 12/31/98 page 18  
MASTER LABEL

GKN-O FRONT PANEL

09-24-98

**GKN-O CONCENTRATE MICROBIOCIDES****WATER TREATMENT MICROBIOCIDES FOR BUILDING AND INDUSTRIAL COOLING TOWERS, AND  
OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS.****Active Ingredients**

<b>Glutaraldehyde</b>	25.75%
Alkyl (60% C <sub>14</sub> , 30% C <sub>16</sub> , 5% C <sub>18</sub> , 5% C <sub>12</sub> ) dimethyl benzyl ammonium chloride	6.25%
Alkyl (68% C <sub>12</sub> , 32% C <sub>14</sub> ) dimethyl ethyl benzyl ammonium chloride	6.25%

**Inert Ingredients**

61.75%

**TOTAL**

100.00%

**KEEP OUT OF REACH OF CHILDREN****DANGER****STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with water for at least 15 minutes. Get immediate medical attention.

IF ON SKIN: Wash with plenty of water. Get medical attention.

IF SWALLOWED: DO NOT INDUCE VOMITING. Give at least two glasses of water. Seek medical advice with urgency.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS****M & S RESEARCH, INC  
11500 WEST HILL DRIVE  
ROCKVILLE, MD 20852****Manufactured by: Champion Technologies, Inc.  
3355 W. Alabama, Suite 400  
Houston, Texas 77098****EPA Registration No.  
EPA Establishment No.**

59894-4

8133-TX-01

8133-TX-02

8133-CA-01

8133-LA-02

**NET CONTENTS****Net Volume  
5 U.S. Gals  
55 U.S. Gals****Net Weight  
45 lbs  
500 lbs****ACCEPTED**

DEC 03 1998

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-4

## PRECAUTIONARY STATEMENTS

**DANGER**

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Keep Out of Reach of Children**

**Corrosive.** Causes severe eye and skin damage. May cause skin sensitization. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles, protective clothing and rubber gloves. Avoid breathing vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or any other waters, unless in accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product into sewer systems without previously notifying local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

**STORAGE AND HANDLING**

GKN-O solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. To avoid freezing, locate the storage tank inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F can be tolerated, but the preferred maximum storage temperature is about 80° F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

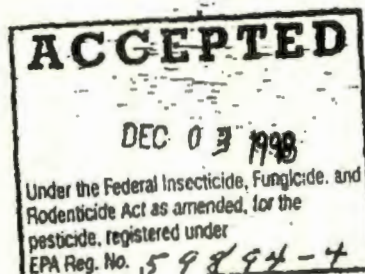
**PESTICIDE DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

Metal containers should be triple rinsed (or equivalent). Then, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities. Plastic containers may be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

**USE AS HYDROGEN SULFIDE SCAVENGER (NON-BIOCIDAL):** This product may also be used as a hydrogen sulfide scavenger in oil field processing and refining operations. For hydrogen sulfide scavenging applications, inject GKN-O full strength to attain concentrations of up to 500 ppm of active ingredient in target areas on a continuous basis or in slug treatment.





375

MASTER LABEL

GKN-O RIGHT PANEL 1

09-24-98

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

### WATER FLOODS

GKN-O Microbiocide should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. **Initial Treatment:** When the system is noticeably contaminated, add 100 - 200 ppm GKN-O (0.09 - 0.18 gallons GKN-O per 1000 gallons flood water). Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 20 - 100 ppm GKN-O (0.018 - 0.09 gallons GKN-O per 1000 gallons flood water) weekly, or as needed to maintain control.

### DRILLING MUDS

GKN-O Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank. **Initial Treatment:** Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. **Maintenance Dosage:** As the total volume of the system increases due to increased well depths, maintain 50 - 1000 ppm GKN-O level by adding 0.19 to 3.8 gallons of GKN-O per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

### COMPLETION AND WORKOVER FLUIDS

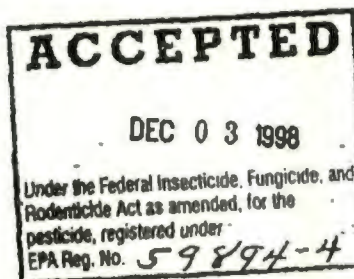
GKN-O Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

### PACKER FLUIDS

GKN-O Microbiocide should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm GKN-O (0.19 - 2.3 gallons GKN-O per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

HEALTH	2
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	-

IN A CHEMICAL EMERGENCY CALL CHEMTREC AT 1-800-424-9300; BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET. TO REQUEST A MATERIAL SAFETY DATA SHEET, CONTACT CHAMPION TECHNOLOGIES, INC. 713-431-2561, OR WRITE P.O. BOX 450499, HOUSTON, TEXAS 77245-0499



4-74

**DIRECTIONS FOR USE**  
(continued from right panel 1)

**COOLING TOWERS, AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS**

GKN-O Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with GKN-O Microbiocide. Under these conditions, blow down should be discontinued for up to 24 hours.

**INTERMITTENT (SLUG DOSE) METHOD**

(1) Initial Dose: When the system is noticeably fouled, add 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system. Repeat until control is achieved.

(2) Subsequent Dose: When microbial control is evident, add 20 - 50 ppm (0.05 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

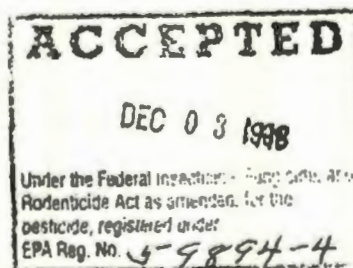
(3) Initial Dose: When the system is noticeably fouled, apply 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system.

(4) Subsequent Dose: Maintain this treatment level by starting a continuous feed of 10 - 50 ppm (0.025 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

**HEAT TRANSFER SYSTEMS**

(Evaporate condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

GKN-O Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.





**BEST AVAILABLE COPY**

See MSDS for exposure limits of components.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through the skin. Harmful if inhaled. May cause skin sensitization.

Do not get in eyes, on skin, on clothing.  
Avoid breathing vapor. Do not swallow.

Wear goggles, protective clothing, and rubber gloves.  
Wash thoroughly with soap and water after handling.  
Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless the product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

PROR® 842 Sulficide solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -14°C (7°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. Heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F can be tolerated but the preferred maximum storage temperature is about 80°F.

A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Do not cut or weld on or near metal containers. Plastic Containers: May be incinerated, if allowed by state and local authorities. If burned, stay out of smoke. Metal Containers: Must not be incinerated.

**UNION  
CARBIDE**

**Piror®**

**842  
SULFICIDE**

**A MICROBICIDE CONTROLLING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA, FUNGI AND YEAST IN PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS AND WATER BASED COATINGS FOR PAPER AND PAPERBOARD**

Active Ingredient: Glutaraldehyde ..... 42.5%  
Alkyl (C14 50%, C12 40%, C16 10%)  
dimethyl benzyl ammonium chloride ..... 7.5%  
Inert Ingredients: ..... 50.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

**IF SWALLOWED:** DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.

Note to physician: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

**UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC.  
SPECIALTY CHEMICALS DIVISION**

39 Old Ridgebury Road • Danbury, CT 06817-0001 EPA Est. No. 10352-WV-2  
EPA Reg. No. 10352- UCC-L72107 (A /92)

PROR® is a registered trademark of  
Union Carbide Corporation  
Net Weight 5 or 55 Gallons

Made in USA  
PE0592

DOT SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	UN 1780 19 DANGER	21.1	CONTAINER SIZE 35 GALLONS	COMMER SIZE 5 GALLONS
IMO SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	1780 19 DANGER	21.1	55 POUNDS NET WEIGHT	5 POUNDS NET WEIGHT

**EMERGENCY CONTACT (24 HOURS PER DAY) IN U.S.A.: 1-800-UC-HELP (1-800-822-4357)  
OUTSIDE USA: 01-203-74-3487**

*Product to support pulp + paper use*

**DIRECTIONS FOR**

It is a violation of Federal law to use this product in a manner inconsistent with the directions.

**PAPER MILLS AND PAPER MILL PROCESS**  
PROR® 842 Sulficide should be added to a paper making such as the thin or thick stock chest, save-all tank, or

**Initial Treatment:** When the system is noticeably clogged, add 842 Sulficide per ton of pulp or paper (dry basis) as a control is achieved. Heavily fouled systems should be

**Subsequent dose:** When microbial control is evident, add per ton of pulp or paper (dry basis) as necessary to maintain

**WATER BASED COATINGS, PIGMENT  
FOR PAPER AND PAPERBOARD**

**Note:** For non-food contact use only.  
Add sufficient quantities of PROR® 842 Sulficide to per by weight of the formulated slurry (1-5 lbs. of PROR® 1

DEC 31 1992

10352-48

**LIMITED WARRANTY**

The manufacturer warrants (a) that the product conforms to the product as reasonably fit for the purposes set forth in the directions such directions; and (b) that the directions, warnings and all responsible experts' evaluation of reasonable tests of effectiveness have not been made on all varieties or in all states or under all MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES, and the Buyer shall be solely responsible for, any use of this product in any manner which is inconsistent with the

**BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO THE REPAYMENT OF THE PURCHASE PRICE FOR THE PRODUCT IN WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL A SPECIAL, DIRECT OR CONSEQUENTIAL DAMAGES RESULT FROM THE USE OF THIS PRODUCT.**



71355-1

11/20/2001

1/3

# VIROCID®

## CONCENTRATED BROAD SPECTRUM DISINFECTANT

### Active Ingredients :

ALKYL* DIMETHYL BENZYL AMMONIUM CHLORIDE *(50% C14;40% C12;10% C16)	17.060 % (by wt)
DIDECYL DIMETHYL AMMONIUM CHLORIDE	7.800 %
GLUTARALDEHYDE	10.725 %
Inert ingredients	64.415 %
	100.000 %

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

*veterinary use -  
different quat*

### VIROCID is effective against :

- Bacteria : *Salmonella Choleraesuis* (ATCC 10708), *Staphylococcus aureus* (ATCC 6538), *Pseudomonas aeruginosa* (ATCC 15442)
- Fungus : *Tricophyton mentagrophytes* (ATCC 9533) on environmental surfaces.
- Virus : *Infectious Bursal Disease of Chickens* (SPAFAS Strain 2512) on environmental surfaces.

### APPLICATION :

Disinfection of non-food surfaces, farm, animal, and poultry housing facilities and equipment :

1. Farm Equipment and animal housing buildings (poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings)
2. Hatchers, Setters, and chick processing facilities
3. Food processing plants (slaughterhouses)
4. Trays, racks, carts, chick boxes, cages and other hard surfaces
5. Trucks and other vehicles
6. Veterinary hospitals.

### STORAGE AND DISPOSAL :

Do not contaminate water, food, or feed by storage and disposal

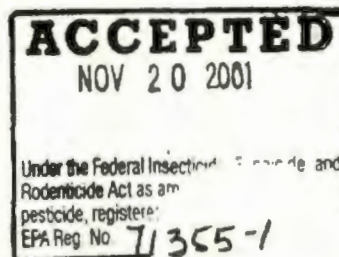
Storage : Store in a cool, dry place in tightly closed container away from children. Avoid temperatures below 23°F and above 113°F.

Disposal of pesticide : Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

Disposal of container : Triple rinse. Then offer for recycling or puncture and dispose in a sanitary landfill. Disposal by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### ENVIRONMENTAL HAZARDS :

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.





## PRECAUTIONARY STATEMENTS

### Hazard to Humans and Domestic Animals

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear, protective clothing, and rubber gloves. Harmful if inhaled. Avoid breathing vapor. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

## FIRST AID STATEMENTS

**IF IN EYES :** Hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**IF ON SKIN :** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED :** Call a poison control center or doctor for treatment advice. Have individual sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED :** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for further treatment advice.

### NOTE TO PHYSICIAN :

Probable mucosal damage may contraindicate the use of gastric lavage.

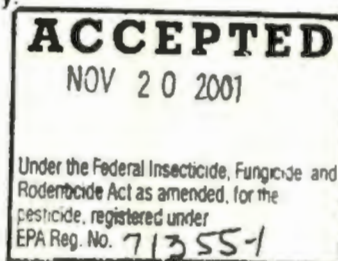
## DIRECTIONS FOR USE :

It is a violation of federal law to use this product in a manner inconsistent with its labelling.

### 1. Farm equipment and animal housing buildings (poultry & turkey grow-out houses, laying houses, swine production and housing, barns and large animal buildings) :

For disinfection of hard, non-porous surfaces : stainless, galvanised and painted steel, copper, aluminum, finished wood, vinyl, plastics, glazed tiles, brick walls, sandwich panels and feeding/drinking equipment :

- A. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks, and other feeding and watering appliances.
- B. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with 1:400 disinfecting solution by using a coarse spray, mop, or sponge. Surfaces must remain wet for 10 minutes.
- C. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed or dried.
- D. Thoroughly scrub treated feed racks, troughs, and other feeding and water appliances with soap or detergent and rinse with potable water before reuse.
- E. Disinfection of equipment : Immerse all halters, ropes, and other types of restraining equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure in a 1:400 dilution for 10 minutes. Allow to air dry.
- F. Fresh disinfecting solution should be made daily.





**2. Hatcheries :**

Remove all animals from the area. Thoroughly clean all surfaces (hatchers, setters, trays, racks, carts, sexing tables, chick boxes, cages) with soap or detergent, then rinse with water. Saturate all surfaces with 1:400 disinfecting solution by using a course spray, mop, or sponge. Surfaces must remain wet for 10 minutes. Do not house animals or employ equipment until surfaces have been absorbed or dried. Fresh disinfection solution should be made daily or if visibly soiled.

**3. Food processing plants (including Chicken Processing Facilities) :**

Before using this product, all food products and packaging materials must be removed from the room or carefully protected. Thoroughly clean all surfaces with soap or detergent, then rinse with water. Disinfect hard, non-porous surfaces by applying 1:400 solution with a course spray, mop, or sponge. All surfaces must remain thoroughly wet for 10 minutes. Allow to air dry. A potable water rinse is required for all surfaces that come into contact with food.

**4. Trucks and other vehicles :**

Clean all vehicles including mats, crates, cabs, and wheels with high pressure water. Use 1:400 disinfecting solution to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes. Allow to air dry.

**5. Veterinary hospitals :**

For disinfection of the following hard non-porous surfaces : floors, walls, ceilings, counters, cages, feeding/drinking equipment, and handling/restraining equipment. Remove animals and feed from the premises. Thoroughly clean all surfaces with soap or detergent, then rinse with water. Saturate surfaces with 1:400 disinfecting solution by using a course spray, mop, or sponge. Surfaces must remain wet for 10 minutes. Do not house livestock or employ equipment until surfaces have been absorbed or dried. Thoroughly scrub treated feeding and watering equipment with soap or detergent and rinse with potable water before reuse. Fresh disinfection solution should be made daily or if visibly soiled.

**LIMITED WARRANTY AND DISCLAIMER :**

The manufacturer warrants (a) that this product conforms to the chemical description on the label ; (b) that this product is a reasonable fit for the purposes set forth in the directions for use when it is used in accordance with such directions ; and (c) that the directions, warnings and other statements on this label are based upon responsible expert's evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. The manufacturer neither makes nor intends, nor does it authorize any agent or representative to make, any other warranties, expressed or implied, and it expressly excludes and disclaims all implied warranties of merchantability and fitness for particular purpose. This warranty does not extend to, and the buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions. Buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages, or injuries resulting from the use or handling of this product, whether or not such liability is based in the contract, negligence, strict liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall manufacturer or seller be liable for special, indirect or consequential damages resulting from the use or handling of this product.

EPA Reg. N° : 71355-1

EPA Est. N° : 71355-BEL-001

BATCH N° : see top / bottom EXPIRY DATE : see top / bottom

Net contents : see top / bottom

**Produced by :**

CID LINES NV/SA - Waterpoortstraat 2 - B 8600 IEPER - BELGIUM - EUROPE

Phone: 011-32-57-217877 - Fax: 011-32-57-217879

www.cidlines.be - cidlines@cidlines.be

**CID LINES**

**ACCEPTED**

NOV 20 2001

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 71355-1



# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS & DOMESTIC ANIMALS

### DANGER

#### KEEP OUT OF REACH OF CHILDREN CORROSIVE

Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Harmful or fatal if swallowed. Avoid contamination of food.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### INITIAL APPLICATION FOR SWIMMING POOLS (To A Clean Pool)

26 fluid oz. Maquat LC12S to each 50,000 gallons of water or ratio thereof. If algae growth is visible apply the initial dose. Vacuum pool after 24 hours to remove dead algae. If algae is still visible repeat dose as necessary until pool is free of visible algae.

#### CONTINUED APPLICATION

8.5 fluid oz. Maquat LC12S in 50,000 gallons of water every 3-5 days or as needed to maintain 2 ppm active. Quaternary Test Kits are available for this use.

#### BOOSTER APPLICATION

8.5 fluid oz. Maquat LC12S in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions should be followed even when the pool is not in use.

#### INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS AND RECIRCULATING COOLING WATER SYSTEMS

This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, commercial and industrial cooling towers, influent systems such as flow through filters and lagoons, industrial water scrubbing systems and brewery pasteurizers.

#### INITIAL APPLICATION (To A Clean System)

The dose should be poured into the pump of a system which is being or which growth is first noticed.

6.25 to 10.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of contained water. When heavy algae growth is present, system will have to be cleaned manually.

#### SUBSEQUENT APPLICATION

1.33 to 3.85 fluid ounces (5 to 15 ppm on an active quaternary basis) per 1000 gallons of contained water.

The above directions are to be followed twice weekly or as needed. If algae growth is noticeable, apply the initial dose.

## AUXILIARY SERVICE WATER AND WASTE WATER SYSTEM

This product is effective for the control of odor-forming and slime-forming bacterial, fungi and algae in auxiliary service water systems such as fire protection systems and pump or screen days, water waste material disposal, holding or recovery systems such as storage tanks, storage piles, disinfected piping, settling ponds or lagoons, transport spillways or canals and disposal wells.

This product may be added to the system by slug or intermittent feed or by spraying onto a waste pile. The frequency of feed or spray and the duration of treatment will depend upon the severity of the contamination. Additions to water systems should be made during the pumping operation and as close to the pump as possible to ensure adequate mixing.

**INTERMITTENT OR SLUG METHOD**  
When this treatment is required, add this product at the rate of 5.25 to 10.25 ounces per 1000 gallons of water already in the system, or being added to the system, for 4 to 8 hours, 1 to 4 times per week or as needed to achieve the desired level of control. When control is obtained, add this product at the rate of 1.33 to 3.85 ounces per 1000 gallons of water in the system.

#### ONCE THROUGH FRESH WATER COOLING SYSTEM

1. Wear safety glasses, rubber gloves and impervious apron.
2. Add product directly from drum or add the product at a point where it will be mixed uniformly.
3. To reduce foaming, mix 2 parts of water to 1 part of product.
4. 0.15 to 1.5 fluid ounces (1-10 ppm on an active quaternary basis) per thousand gallons.
5. Do not discharge without performing proper deactivation. To perform deactivation use Bentonite Clay. The minimum ratio to be used is 5 ppm of clay to 1 ppm of product.
6. Do not use product more than 4 times per year.
7. Treatment time can not exceed 120 hours/application.
8. Avoid oxidizers and reducing agents. Product is cationic and should not be mixed with soap or anionic surfactants.

# MAQUAT LC12S

Maquat LC12S for control of Algae, Algal, Fungal and Bacterial Slimes in Recirculating Water Systems, Auxiliary Water and Waste Water Systems and Water Cooling Systems and Molluscs in Once Through Freshwater Cooling Systems and Swimming Pools

#### ACTIVE INGREDIENTS

n-Alkyl (67% Ca, 25% Cu, 7% Ca, 1% Cu)	
dimethyl benzyl ammonium chloride	50.0%
INERT INGREDIENT	50.0%
TOTAL	100.0%
Weight Approx. 8 lb/gal	

## KEEP OUT OF REACH OF CHILDREN DANGER

#### STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing and wash before reuse.

If swallowed, drink promptly a large quantity of egg whites, gelatin solution; or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

#### SEE LEFT PANEL

FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

#### Mason Chemical Company

"The Quaternary Specialists"  
721 W. ALGONQUIN ROAD  
ARLINGTON HEIGHTS, IL 60005  
708/290-1621  
TOLL FREE:  
1-800-362-1855

E. No. 10324-04  
E.P. No. 10324-IL-1

## STORAGE AND DISPOSAL

1. PROHIBITIONS  
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED. DO NOT REUSE EMPTY CONTAINER.

2. STORAGE INSTRUCTIONS  
STORE IN ORIGINAL CONTAINER. KEEP FROM FREEZING.

3. SPILL OR LEAK PROCEDURES  
SMALL SPILLS MAY BE MOPPED UP, FLUSHED AWAY WITH WATER OR ABSORBED ON SOME ABSORBENT MATERIAL AND INCINERATED. LARGE SPILLS SHOULD BE CONTAINED; THE MATERIAL THEN MOVED INTO CONTAINERS AND DISPOSED OF BY APPROVED METHODS FOR HAZARDOUS WASTES.

4. PESTICIDE DISPOSAL  
PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED OF BY THE USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

5. CONTAINER DISPOSAL  
TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

6. GENERAL  
CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVAL OF ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.

NET CONTENTS

BATCH NO.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR 24 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the purpose of registering under FIFRA Act, No. 10324-04

BEST AVAILABLE COPY



03/13/02

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

10324-90 MAQUAT LC12S64PD

PC CODE	PERCENT	CHEMICAL NAME
69175	50.0000	Alkyl* dimethyl benzyl ammonium chloride *(67%C12, 25%C14, 7%C16, 1%C18)

*used to support water  
cooling towers  
(same ques)*

*on which  
product should  
I base  
cooling tower  
rate?*



PM 31

10324-90

10f2

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

10324-90

Date of Issuance:

MAR 24 1997  
EPA - WASH

NOTICE OF PESTICIDE:  
x Registration  
Reregistration

Term of Issuance: Conditional

Name of Pesticide Product: MAQUAT LC12S64PD

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

MASON CHEMICAL COMPANY  
721 W. ALGONQUIN RD.  
ARLINGTON HEIGHTS, Illinois 60005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c) (5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 10324-90".

3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

M. L. Windell, PM 31/AD/OPP

Date:

MAR 24 1997

EPA Form 8570-6

## CONCURRENCES

SYMBOL	1505 C						
SURNAME	Phurley						
DATE	3-20-97						



# PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS  
& DOMESTIC ANIMALS

## DANGER

KEEP OUT OF REACH OF CHILDREN

### CORROSIVE

Causes severe eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Harmful or fatal if swallowed. Avoid contamination of food.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### INITIAL APPLICATION FOR SWIMMING POOLS

(To A Clean Pool)

26 fluid oz. Maquat LC12S to each 50,000 gallons of water or ratio thereof. If algae growth is visible apply the initial dose. Vacuum pool after 24 hours to remove dead algae. If algae is still visible repeat dose as necessary until pool is free of visible algae.

### CONTINUED APPLICATION

3.5 fluid oz. Maquat LC12S in 50,000 gallons of water every 3-5 days or as needed to maintain 2 ppm active. Quaternary Test Kits are available for this use.

### BOOSTER APPLICATION

1.5 fluid oz. Maquat LC12S in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions should be followed even when the pool is not in use.

### INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS AND RECIRCULATING COOLING WATER SYSTEMS

This product aids in the control of bacterial, fungal and algal slimes in evaporative condensers, heat exchange water systems, commercial and industrial cooling towers, influent systems such as flow through filters and lagoons, industrial water scrubbing systems and brewery waterizers.

### INITIAL APPLICATION

(To A Clean System)

The dose should be poured into the pump of a system which is still in high growth is first noticed.

25 to 10.25 fluid ounces (20 to 40 ppm on an active quaternary basis) per 1000 gallons of contained water. When heavy algae growth is present, system will have to be cleaned manually.

### SUBSEQUENT APPLICATION

33 to 3.85 fluid ounces (15 to 15 ppm on an active quaternary basis) per 1000 gallons of contained water.

The above directions are to be followed twice weekly or as needed.

# AUXILIARY SERVICE WATER AND WASTE WATER SYSTEM

This product is effective for the control of odor-forming and slime-forming bacterial, fungi and algae in auxiliary service water systems such as fire protection systems and pump or screen bays, water waste material disposal, holding or recovery systems such as storage tanks, storage piles, associated piping, settling ponds or lagoons, transport spillways or canals and disposal wells.

This product may be added to the system by slug or intermittent feed or by spraying onto a waste pile. The frequency of feed or spray and the duration of treatment will depend upon the severity of the contamination. Additions to water systems should be made during the pumping operation and as close to the pump as possible to ensure adequate mixing.

### INTERMITTENT OR SLUG METHOD

When this treatment is required, add this product at the rate of 5.25 to 10.25 ounces per 1000 gallons of water already in the system, or being added to the system, for 4 to 8 hours, 1 to 4 times per week or as needed to achieve the desired level of control. When control is obtained, add this product at the rate of 1.33 to 3.85 ounces per 1000 gallons of water in the system.

### ONCE THROUGH FRESH WATER COOLING SYSTEM

1. Wear safety glasses, rubber gloves and impervious apron.
2. Add product directly from drum or add the product at a point where it will be mixed uniformly.
3. To reduce foaming, mix 2 parts of water to 1 part of product.
4. 0.15 to 1.5 fluid ounces (1-10 ppm on an active quaternary basis) per thousand gallons.
5. Do not discharge without performing proper deactivation. To perform deactivation use Bentonite Clay. The minimum ratio to be used is 5 ppm of clay to 1 ppm of product. Do not use product more than 4 times per year.
7. Treatment time can not exceed 120 hours/application.
8. Avoid oxidizers and reducing agents. Product is cationic and should not be mixed with soap or anionic surfactants.

# MAQUAT LC12S

Maquat LC12S- for control of Algae, Algal, Fungal and Bacterial Slimes in Recirculating Water Systems, Auxiliary Water and Waste Water Systems and Water Cooling Systems and Molluscs in Once Through Freshwater Cooling Systems and Swimming Pools

### ACTIVE INGREDIENTS

n-Alkyl (67% C <sub>12</sub> , 25% C <sub>14</sub> , 7% C <sub>16</sub> , 1% C <sub>18</sub> )	50.0%
dimethyl benzyl ammonium chloride	50.0%
INERT INGREDIENT	100.0%
TOTAL	
Weight Approx. 8 lb./gal.	

## KEEP OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing and wash before reuse.

If swallowed, drink promptly a large quantity of egg whites, gelatin solution; or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

### SEE LEFT PANEL

FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

### Mason Chemical Company

"The Quaternary Specialists"  
721 W. ALGONQUIN ROAD  
ARLINGTON HEIGHTS, IL 60005  
708/290-1821  
TOLL FREE:  
1-800-362-1855



E. No. 10374 BN

# STORAGE AND DISPOSAL

1. PROHIBITIONS  
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED. DO NOT REUSE EMPTY CONTAINER.

2. STORAGE INSTRUCTIONS  
STORE IN ORIGINAL CONTAINER. KEEP FROM FREEZING.

3. SPILL OR LEAK PROCEDURES  
SMALL SPILLS MAY BE MOPPED UP, FLUSHED AWAY WITH WATER OR ABSORBED ON SOME ABSORBENT MATERIAL AND INCINERATED. LARGE SPILLS SHOULD BE CONTAINED; THE MATERIAL THEN MOVED INTO CONTAINERS AND DISPOSED OF BY APPROVED METHODS FOR HAZARDOUS WASTES.

4. PESTICIDE DISPOSAL  
PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED OF BY THE USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE.

5. CONTAINER DISPOSAL  
TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

6. GENERAL  
CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVAL OF ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.

NET CONTENTS BATCH NO.

ACCEPTED  
FOR COMMENTS  
in EPA Letter Dated

MAR 24 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the purpose of registration under FIFRA, Reg. No. 10324-10



ANIMALS

DREN

ntful if inhaled.  
ay cause allergic  
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kes, streams, ponds,  
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ctive: Fungicide, and  
ended for the

This label is BUSINESS CONFIDENTIAL and shall not be distributed to anyone unless duly authorized by Regulatory Affairs.



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 15.0%  
Inert Ingredients: \_\_\_\_\_ 85.0%  
100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER FIRST AID

### If swallowed:

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lens(es).
- Call a poison control center or a doctor immediately for treatment advice.

### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.  
1-800-258-CHEM

\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-  
EPA Est. No. 10352-WV-2  
L90225 (J 06/01)  
Made in USA  
PE0601

Net Contents: 5, 30, or 55 gallons

CONTAINER SIZE	CONTAINER SIZE	CONTAINER SIZE
55 GALLONS	30 GALLONS	5 GALLONS
470 POUNDS	260 POUNDS	43 POUNDS
NET WEIGHT	NET WEIGHT	NET WEIGHT

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 1.7 to 4.2 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably fouled, apply 4.2 to 8.5 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 0.8 to 4.2 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 100 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

## SERVICE WATER AND AUXILIARY SYSTEMS

(Fire water systems and spray paint booths)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

## HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

## INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 1.5 to 7.5 gallons (1,500 to 7,500 ppm AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide) per 1,000 gallons of wastewater or sludge.

## MACROFOULING CONTROL

AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

**Initial Dose:** When macrofouling is present in the system, apply 17.0 fluid ounces of AQUACART<sup>TM</sup> 515 Water Treatment Microbiocide per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be regenerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be

revise cooling water  
language to read as  
this

464-693

10-12-2001



DNE

## WATER SYSTEMS

at a point of uniform mixing  
rp. Additions may be made

1 ounce (667 to 1,667 ppm  
7 mL of AQUACARTM 515  
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JACARTM 515 Water  
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fluid ounces/minute (667 to  
1,667 mL/minute of  
or minute in the system via

ea/minute (100 to 1,000  
L/minute of AQUACARTM  
system, or as necessary to  
sliced per day.

## WATER SYSTEMS

naking system at a point of  
er tank.

QUACARTM 515 Water  
at until control is achieved.

ARTM 515 Water  
essary to maintain control.

## ID PAPERBOARD

300 lbs. of dry powder to  
in the mixed slurry.

## APERBOARD

300 lbs. of dry powder to  
in the mixed slurry.

ng fluid system at a point of  
mittenly (SLUG DOSE) at

(100 to 300 ppm active of  
fluid to the system. Repeat

is (40 to 200 ppm active) of  
uid to the system weekly, or  
atment is begun.

ll. Use an automatic feed  
B fluid ounces (50 to 300

## GENERAL PRESERVATIVE USE

AQUACARTM 515 Water Treatment Microbiocide is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products, to control the growth of bacteria and fungi. For effective preservation, add AQUACARTM 515 Water Treatment Microbiocide to the product formulation at a rate of 0.066% to 0.66% (666.9 to 6,669 ppm) based on the water content of the product (0.66 to 6.6 lbs AQUACARTM 515 Water Treatment Microbiocide / 1,000 lbs water content). Mix uniformly.

## PRESERVATIVE FOR CONCENTRATES

For use in concentrates where effective preservation is needed after dilution, add AQUACARTM 515 Water Treatment Microbiocide to the product formulation at a rate such that the diluted end-use product will contain 0.066% to 0.66% AQUACARTM 515 Water Treatment Microbiocide.

At no time during the preservation process should the level of AQUACARTM 515 Water Treatment Microbiocide exceed 6.6%.

## REVERSE OSMOSIS MEMBRANES

For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.66% to 6.6% AQUACARTM 515 Water Treatment Microbiocide.

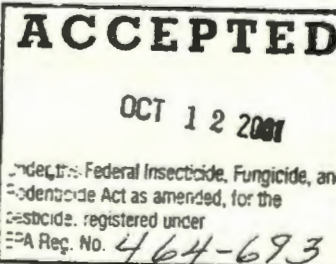
AQUACARTM 515 Water Treatment Microbiocide can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.66% to 6.6% AQUACARTM 515 Water Treatment Microbiocide to the tank in the circulating system. Maintain AQUACARTM 515 Water Treatment Microbiocide concentration by periodic addition to counteract any system leakage.

## CONCRETE ADMIXTURES

For effective preservation of concrete admixtures, add AQUACARTM 515 Water Treatment Microbiocide to the product formulation at a rate of 6,668 to 26,667 ppm based on the weight of the admixture (6.7 to 26.7 lbs AQUACARTM 515 Water Treatment Microbiocide/1,000 lbs. concrete admixture). Mix uniformly.

## FUEL OIL STORAGE TANKS

AQUACARTM 515 Water Treatment Microbiocide should be added to the fuel oil storage tank at a rate of 4.2 ounces to 8.5 ounces per 1,000 gallons of fuel oil. Additions may be made intermittently or re-added as a slug dose with each oil delivery at a rate of 4.2 ounces to 8.5 ounces per 1,000 gallons of oil delivered. Apply to the tank just prior or at the time of oil delivery or to a tank recirculation line to ensure adequate mixing.



PE0601



TS  
C ANIMALS

ILDREN

emful if inhaled.

ic reactions in some  
individuals.

to lakes, streams, ponds,  
a National Pollutant  
sein notified in writing  
items without previously  
State Water Board or

eny commonly used  
These solutions can be  
reinforced epoxy-plastic  
age tank is inside or  
ure to high temperatures  
f up to 100°F (37.8°C;  
6.7°C).  
stainless steel with

ER

as contained on this  
used in accordance  
ES MADE IN THIS  
ESPECT TO THE  
UDE ANY IMPIED  
A PARTICULAR  
SENTATIONS AND

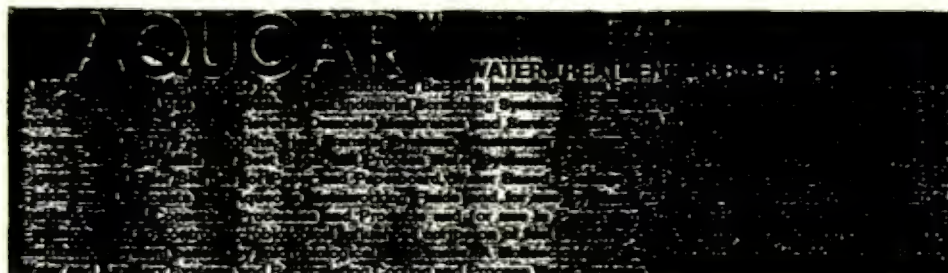
UNDERSTAND  
IT FOR THIS

CEPTED

1 2 2001

secticide, Fungicide, and  
amended, for the

This label is BUSINESS CONFIDENTIAL and shall not be distributed to anyone unless duly authorized by Regulatory Affairs.



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 45.0%  
Inert Ingredients: \_\_\_\_\_ 55.0%  
100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER FIRST AID

### If swallowed:

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lens(es).
- Call a poison control center or a doctor immediately for treatment advice.

### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

1-800-258-CHEM

\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-

EPA Est. No. 10352-WV-2

L90226 (H 06/01)

Made in USA

PE0601

Net Contents: 55 gallons

CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS GLUTARALDEHYDE)	
55 GALLONS			
504 POUNDS	HAZARD CLASS	ID NUMBER	PG II
NET WEIGHT	8	UN 3285	

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/ RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

This product may be used only in industrial air washers and air washer systems which have most-eliminating components.

AQUACART™ 545 Water Treatment Microbiocide should be added at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUACART™ 545 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUACART™ 545 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

#### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably fouled, apply 14.2 to 28.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 5.7 to 14.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

#### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably fouled, apply 14.2 to 28.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system.

**Subsequent Dose:** Maintain the treatment level by starting a continuous feed of 2.6 to 14.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

### SERVICE WATER AND AUXILIARY SYSTEMS

(Fire water systems and Spray paint booths)

AQUACART™ 545 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

### HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUACART™ 545 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

### INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACART™ 545 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.5 to 2.5 gallons (500 to 2,500 ppm AQUACART™ 545 Water Treatment Microbiocide) per 1,000 gallons of wastewater or sludge.

### MACROFOULING CONTROL

AQUACART™ 545 Water Treatment Microbiocide should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

**Initial Dose:** When macrofouling is present in the system, apply 5.6 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open burning is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray material or residue is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or allowed to decay by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must be recycled or disposed of as hazardous waste.

464-692

10-12-2001



ONE

## WATER SYSTEMS

at a point of uniform mixing  
mg. Additions may be made

ounces (225 to 500 ppm  
mL of AQUACARTM 545  
set until control is achieved.

ounces (33 to 330 ppm) of  
ARTM 545 Water  
se as necessary to maintain  
r day.

ounces/minute (225 to 500  
225 to 500 mL/minute of  
or minute in the system via

/minute (33 to 330 ppm) of  
1 AQUACARTM 545  
system, or as necessary to  
sliced per day.

## WATER SYSTEMS

making system at a point of  
ter tank.

AQUACARTM 545 Water  
set until control is achieved.

:ARTM 545 Water  
essary to maintain control.

## 100 PAPERBOARD

500 lbs. of dry powder to  
in the mixed slurry.

## 100 PAPERBOARD

300 lbs. of dry powder to  
in the mixed slurry.

1g fluid system at a point of  
minutely (SLUG DOSE) at

ARTM 545 Water Treatment  
control is achieved.

AQUACARTM 545 Water  
1 weekly, or as needed to  
r.

## GENERAL PRESERVATIVE USE

AQUACARTM 545 Water Treatment Microbiocide is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products, to control the growth of bacteria and fungi. For effective preservation, add AQUACARTM 545 Water Treatment Microbiocide to the product formulation at a rate of 0.022% to 0.22% (222.5 to 2,222.5 ppm) based on the water content of the product (0.22 to 2.2 lbs AQUACARTM 545 Water Treatment Microbiocide /1,000 lbs water content). Mix uniformly.

## PRESERVATIVE FOR CONCENTRATES

For use in concentrates where effective preservation is needed after dilution, add AQUACARTM 545 Water Treatment Microbiocide to the product formulation at a rate such that the diluted end-use product will contain 0.022% to 0.22% AQUACARTM 545 Water Treatment Microbiocide.

At no time during the preservation process should the level of AQUACARTM 545 Water Treatment Microbiocide exceed 2.2%.

## REVERSE OSMOSIS MEMBRANES

For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.22% to 2.2% AQUACARTM 545 Water Treatment Microbiocide.

AQUACARTM 545 Water Treatment Microbiocide can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.22% to 2.2% AQUACARTM 545 Water Treatment Microbiocide to the tank in the circulating system. Maintain AQUACARTM 545 Water Treatment Microbiocide concentration by periodic addition to counteract any system leakage.

## CONCRETE ADMIXTURES

For effective preservation of concrete admixtures, add AQUACARTM 545 Water Treatment Microbiocide to the product formulation at a rate of 2,222 to 8,889 ppm based on the weight of the admixture (2.2 to 8.9 lbs AQUACARTM 545 Water Treatment Microbiocide/1,000 lbs. concrete admixture). Mix uniformly.

**ACCEPTED**

OCT 12 2001

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 464-692

PE000\*

1 automatic feed system as  
(50 to 300 ppm active) of







Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

February 1, 2002

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (PRN)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Noble:

Preserve is requesting the EPA add the following use sites to our Synergize label EPA Registration Number 66171-7:

- A. Water Flood
- B. Drilling Muds
- C. Completion Work Over Fluids
- D. Packer Fluids
- E. Gas Production and Transmission Pipelines and Systems
- F. Gas Storage Well and System
- G. Hydro testing
- H. Pipeline Pigging and Scrapping
- I. Pulp and Paper
- J. Water Cooling Towers
- K. Veterinary Practice/Animal Care/Animal Laboratory/Zoos/Pet Shops/Kennels Disinfection Directions

The active ingredient Alkyl (67%C<sub>12</sub>, 25%C<sub>14</sub>, 7%C<sub>16</sub>, 1%C<sub>18</sub>) dimethyl benzyl ammonium chloride (ADBAC) is approved for formulating microbiocides, disinfectants, sanitizers, fungicides, water treatment microbiocides and once through fresh water cooling systems and wood preservatives.

The active ingredient Glutaraldehyde (gluts) is approved for formulating water treatment microbiocides, sporicides, disinfectants and fungicides.

Items A, B, C, D, E, F, G, H - ADBAC quats are used in formulating Water Flood Chemicals (See Ucarcide 142, EPA Registration Number 10352-32 and GKN-O, EPA Registration Number 59894-4). While these ADBAC are not the identical to the ADBAC found in Synergize, they are similar in that they are both ADBACs and ADBACs are approved for Antimicrobial uses.

Item I - The ADBAC quat is approved for this use under 21CFR 176.300 and under the general headings microbiocides and water treatment microbiocides. The gluts are also used in paper, see EPA Registration Number 10352-48. As for the inert ingredients, please review the alternate formula for Synergize registered August 1, 2001 which included [REDACTED] as the inert ingredients. We have attached, as Exhibit A, Exhibit B and Exhibit C as the relevant citations in 21CFR which demonstrate the approval for use in Pulp and Paper (Food Contact) for the above referenced inert ingredients. In your letter, you state the "Agency is unable to determine at this time whether





the inert ingredients in your source of Glutaraldehyde are cleared". A review of the CSF on file for Synergize demonstrates that we are using [REDACTED]

Item J -

Both Actives are approved for water cooling towers, see EPA Registration Number 10324-90, and EPA Registration Number 10352-31.

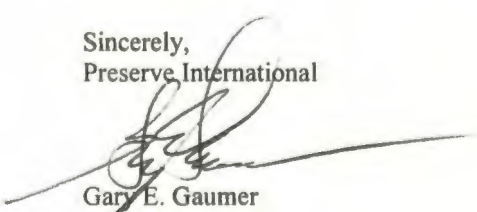
Item K -

The ADBAC quat has a general classification of disinfection which is what Synergize is more specifically used for. Glutaraldehyde is also used to make disinfectants. In addition, please see the label for EPA Registration Number 71355-1 in which this product was claimed, in a August 8, 2000 letter from the registrants regulatory consultant to the EPA, to be substantially similar to Synergize in an effort to use the inhalation data we have on file to support their registration. Please note the directions for use in the veterinary hospitals.

The chemistries of Alkyl (C<sub>12</sub>-C<sub>16</sub>) dimethyl benzyl ammonium chloride and Alkyl (C<sub>12</sub>-C<sub>18</sub>) dimethyl benzyl ammonium chloride are not identical but they are similar. Each product is made from blending Alkyl dimethyl amine to obtain a certain percentage of (C<sub>12</sub>, C<sub>14</sub>, C<sub>16</sub> and C<sub>18</sub>). The feedstocks for the amine (C<sub>12</sub>, C<sub>14</sub>, C<sub>16</sub>, C<sub>18</sub>) are the same. It is the blending of the feedstocks that make the product different.

We have enclosed the best available copies of the referenced labels for your review. Thank you for your time and consideration.

Sincerely,  
Preserve International



Gary E. Gaumer  
President

**FQPA**

Reviewer ID

Submission No.

Data Package No.

T. Lantz  
5599494

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 317  
~~302~~

**FQPA**  
**New Use**

10 Descriptor (Amend/Resubmissions only)

5 Intrastate Call-in ☐ (Y) Yes ☐ (N) No

15 Child-resistant Packaging

☐ (C) Certification

☐ (S) Service Person

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

20 Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

25 Proposed Classification: 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

**Due Date:**  
**3/11/02**

35 Date on Application:

0 6 1 1 0 1  
MO DAY YR

04 EPA Received Date:

0 6 1 4 0 1  
MO DAY YR

40 Date Received by PM

0 6 2 7 0 1  
MO DAY YR

80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE

115 FINAL Response ACTION Code 13

120 Response

**NOV 05 2001**

MO DAY YR

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes

☐ (N) No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOV 05 2001

Mr. Gary Gaumer  
Preserve International  
315 Wall Street, Suite 1  
Chico, CA 95928

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendments Dated: June 11 and August 7, 2001  
EPA Received Dates: June 14 and August 7, 2001

Dear Mr. Gary Gaumer:

The following amendments, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are unacceptable for the reasons given below:

- addition of directions for fogging (your letter of 6/11/01)
- addition of new sites (your letter of 8/7/01)

**Major Deficiencies**

1. According to the Agency's records, the following uses are new for the active ingredient: alkyl C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1% dimethyl benzyl ammonium chloride: water floods, drilling muds, completion and workover fluids, packer fluids, gas production and transmission pipelines, gas storage wells and systems, hydrotesting, and pipeline pigging and scraping. In your reply to the Agency, cite other registered products containing the same active ingredient (alkyl C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1% dimethyl benzyl ammonium chloride) with these uses. If you are unable to identify the same active ingredient with these uses you may submit a justification which cites similar active ingredients which are registered for this use and describe why you think your product is similar and should have these uses. The addition of these new

CONCURRENCES							
SYMBOL	7510C						
SURNAME	J. J. J.						
DATE	11/2/01						



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

justification which cites similar active ingredients which are registered for this use and describe why you think your product is similar and should have these uses. The addition of these new uses may require additional review by the science branch.

2. You have proposed the use of this product as a slimicide for the manufacture of pulp and paper. Your active ingredients are cleared for use as a slimicide in paper that contacts food according to 21 CFR 176.300. Submit a highlighted copy of the 21 CFR citations for the clearance of the inert ingredients in your formulation.

In addition, cite a label of a registered product containing glutaraldehyde for this use.

Although glutaraldehyde is cleared for this use, the Agency is unable to determine at this time whether the inert ingredients in your source of glutaraldehyde are cleared.

3. The following site is a new use for this product: cooling towers. If you desire to add this site to this label, cite the label of a registered products containing both of these active ingredients and directions for this use.

4. As identified above you are proposing to add several new uses for this product as well as new uses for the active ingredients. The addition of new uses requires the citation of data to support these uses. Since your product qualifies for the Formulator's Exemption, you need only support the product specific data at this time. Submit a new product specific data matrix (internal and public file copies) and Certification with Respect to Citation of Data form.

**Unacceptable Data**

You have requested that we review MRID 45369501 "Glutaraldehyde Vapor Studies in Animal Housing Sanitizer," submitted by Union Carbide, in support of your proposed directions for fogging. This study does not meet the requirements of 40 CFR, Part 160 and differs in the followings ways: (1) this study was not conducted under Good Laboratory Practices, (2) no study director was appointed for this study, and (3) this study does not meet the application exposure guideline (OPPTS 875.1400) for inhalation exposure guidance.

This study may not be used in the registration process, even as a supplementary submission for your product.

**Other Deficiencies**

1. In order to add veterinary practice, animal care, animal laboratory, zoos, pet shops, and kennels to the label for this product, cite the label of a registered product containing both of these active ingredients and directions for these uses

CONCURRENCES							
SYMBOL							
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DATE							100



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2. Please be advised that you are required to have efficacy data in your files which supports your proposed non-public health uses.

Revise the label as follows:

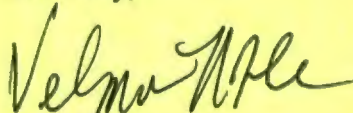
Revise the directions for veterinary practice, animal care, animal laboratory, zoos, pet shops, and kennels to state "Saturate surfaces with a use solution of  $\frac{1}{2}$  ounce of Synergize per gallon..."

**General Comments**

There may be additional label comments once the information requested above has been submitted. Submit the information requested above along with revised labels which address the Agency concerns noted above and are in agreement with the Agency letter of 9/12/01.

Should you have any questions or comments concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

7510C:T.Lantz:11/2/01:66171-7f

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							101



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum. SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR FOGGING:

Synergize is recommended for use in fogging (wet mist) operations as an adjunct prior to acceptable manual cleaning and disinfecting of room surfaces. Before fogging food processing areas, all food and food packaging items must be removed or carefully protected. Use at a dilution of 1/2 - 3 ounces per gallon. Check with a Preserve International representative to determine an effective fogging schedule. Vacate the area of all personnel during fogging and until the glutaraldehyde air contamination is below 0.05ppm. If the room must be entered, then the individuals entering the building must wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE pre-filter, goggles, long shirt sleeves and pants. Treated food contact surfaces must be thoroughly scrubbed with detergent and rinsed with potable water prior to reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C=67%, C=25%, C=7%, C=1%) dimethyl benzyl ammonium chloride	26.00%
Glutaraldehyde	7.00%
INERT INGREDIENTS	67.00%
TOTAL	100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001, 66171-CA-001

Patent Number: 5,891,922

Net Contents: \_\_\_\_\_ U.S. Gallons      Batch Number \_\_\_\_\_

Manufactured by

PRESERVE INTERNATIONAL, ZEPHYR COVE, NV 89448

(209) 664-1607

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.



NOTE TO THE JACKET

66171-7

11/2/01

[REDACTED]

The label for 59894-4 will be helpful to establish the rate and directions for water floods, drilling muds, completion and workover fluids, and packer fluids. The label for 10352-32 will be helpful to establish the rate for gas production and transmission pipelines, gas storage wells and systems, hydrotesting, and pipeline pigging and scraping. Refer to the FAD for pulp and paper to improve upon the directions for this site. Also check with Tony Kish and 21 CFR for other language improvements and clarification as to whether this product is approved for food contact paper.

I was unable to obtain [REDACTED] to view the CSF for inerts clearance for food use pulp and paper. Request this jacket at a later date.

Tracy Lantz  
Team 31

66171-7n







**Union Carbide Corporation**  
A Subsidiary of The Dow Chemical Company  
P. O. Box 670  
Bound Brook, NJ 08805  
U.S.A.

Phone: 732-563-5953  
Fax: 732-563-6020

Mr. Gary Gaumer, President  
Preserve International  
P. O. Box 3135  
Turlock, CA 95381

Subject: Glutaraldehyde – Animal Housing Study

Dear Mr. Gaumer,

U. S. EPA has recently assigned MRID No. 45369501 to a study submitted 2/26/01 by Union Carbide Corporation, A Subsidiary of The Dow Chemical Company.

*Glutaraldehyde Vapor Studies in Animal Housing Sanitizer*

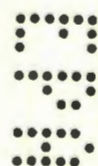
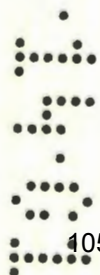
Joan Young asked me to pass this information along to you when the MRID number was assigned.

Sincerely,

*Joan Stryker*

Joan Stryker  
Senior Regulatory Assistant

cc: Maureen Miksztal





Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

June 11, 2001

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (AMEND)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Noble:

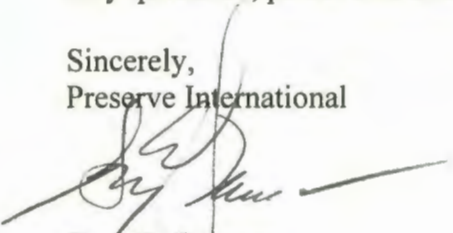
With this cover, Preserve International submits additional label directions for use for our currently registered product, Synergize.

To support our fogging use directions, please reference the data submitted on February 26, 2001 to the USEPA by Union Carbide on MRID Number 45369501, Study Title, Glutaraldehyde Vapor Studies in Animal Housing Sanitizer.

Included are 6 (six) copies of the proposed label.

Any questions, please feel free to contact me.

Sincerely,  
Preserve International



Gary E. Gaumer  
President





Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☒ Amendment  
☐ Other

OPP Identifier Number

222002

### Application for Pesticide - Section I

1. Company/Product Number 66171-7	2. EPA Product Manager 31	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Synergize	PM# Velma Noble	
5. Name and Address of Applicant (Include ZIP Code) PO Box 3135 Turlock, CA 95381  <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

### Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Addition of fogging Directions for Use

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gary E. Gaumer	Title President	Telephone No. (Include Area Code) 530-879-9220
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		8. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Gary E. Gaumer	5. Date June 11, 2001	

**FQPA**

Reviewer ID

Submission No.

Data Package No.

Tracy

5601961

**FQPA**

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PH 31

Action Code 302

10 Descriptor (Amend/Resubmissions only) \_\_\_\_\_

5 Intrastate Call-in ☐ (Y) Yes ☐ (N) No

15 Child-resistant Packaging ☐

☐ (C) Certification

☐ (S) Service Person

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

20 Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

25 Proposed Classification: 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

Due Date:

11/5/01

35 Date on Application:

018 017 011  
MO DAY YR

04 EPA Received Date:

018 017 011  
MO DAY YR

40 Date Received by PH

018 117 011  
MO DAY YR

80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE

NOV 05 2001

108



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SHOE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride . . . 26.00%  
Glutaraldehyde . . . 7.00%

INERT INGREDIENTS . . . 67.00%  
TOTAL . . . 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001

66171-CA-001

Patent Number: 5,891,922

## NFPA HAZARD CLASSIFICATION

HEALTH	FIRE	REACTIVITY	SPECIFIC
3	1	1	None

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/air filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye; call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing, rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for further treatment advice.

**IF INHALED:** If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible; call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for further treatment advice; have person sip a glass of water if able to swallow; do not induce vomiting unless told to do so by the poison control center or doctor; do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by  
PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607

Net Contents: \_\_\_\_\_ U.S. Gallons Batch No. 109

#### WATER FLOODS:

Synergize should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. Initial Treatment: When the system is noticeably contaminated, add 100 - 200 ppm Synergize (0.30-0.60 gallons Synergize per 1000 gallons flood water). Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 20-100 ppm Synergize (0.03-.30 gallons SYNERGIZE per 1000 gallons flood water) weekly, or as needed to maintain control.

#### DRILLING MUDS:

SYNERGIZE should be added to a drifting fluid system at a point of uniform mixing such as a circulating tank. Initial Treatment: Add 50 - 1000 ppm SYNERGIZE (0.3-6.0 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 50-1000 ppm SYNERGIZE level by adding 0.30-6.0 gallons of SYNERGIZE per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

#### COMPLETION AND WORKOVER FLUIDS:

SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm SYNERGIZE (0.30-6.0 gallons SYNERGIZE per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

#### PACKER FLUIDS:

SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm SYNERGIZE (0.30-3.60 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

#### GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS:

Synergize should be added to a gas production and transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of Synergize through the internal surface of the pipeline. To facilitate application, it may be desirable to dilute Synergize with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

#### GAS STORAGE WELLS AND SYSTEMS:

Individual injection wells should be treated with a sufficient quantity of Synergize to produce a concentration of 500 - 5000 ppm Synergize when diluted by the water present in the formulation. Injections should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of Synergize to produce a concentration of 200 - 2000 ppm Synergize when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

#### HYDROTESTING:

Water used to hydrotest pipelines or vessels should contain 100 - 4000 ppm Synergize (0.3-12.0 gallons Synergize per 1000 gallons water) depending on water quality and length of time equipment will remain idle.

#### PIPELINE PIGGING AND SCRAPING OPERATIONS:

Add Synergize to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient Synergize should be added to produce a concentration of 0.1 - 1.0% (0.30-3.0 gallons Synergize per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

#### PULP AND PAPER:

For control of bacteria and associated slime in pulp, paper or paperboard systems use 0.25-1.5 lbs Synergize per ton of total paper (dry basis) production. Intermittent application to thick stock chests has proven most effective. Typical feed cycle would be 1 hour on at a dosage of 4.0 lbs/ton and then 7 hours off to give a total average feed of 0.5 lbs/ton of fiber.

Feed Synergize directly from the drum or diluted water. Application may be anywhere in the system prior to sheet formation or to the recirculating white water.

#### INITIAL APPLICATION FOR INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS: SLUG OR INTERMITTENT FEEDING:

When growth is evident apply 7.6-15.2 fl ozs (19.5 ppm to 39 ppm) of this product per 1000 gallons of contained water. This dose may be repeated until control is achieved. When heavy growth is present system should be cleaned before treatment is begun.

#### SUBSEQUENT APPLICATION

When microbial control is evident apply 5 to 10 fl ounces (12.8 ppm to 25.6 ppm) of this product per 1000 gallons of contained water. The above directions should be followed once per week or as needed to maintain control.

#### VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOOS/PET SHOP/KENNELS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animal feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 1 ounce of Synergize per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.





## SITES ON WHICH THIS CHEMICAL CAN BE USED 043901

## Glutaraldehyde

STATUS	SITE CODE	SITE NAME
INACTIVE	28035	PASTURES (ALL OR UNSPECIFIED)
INACTIVE	28045	RANGELAND (ALL OR UNSPECIFIED)
INACTIVE	30000	FOREST TREES, FOREST LANDS (ALL OR UNSPECIFIED)
ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	53006	SWINE (MEAT ANIMAL)
INACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
INACTIVE	56005	HORSES
INACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	58000	COMMERCIAL EGG HANDLING EQUIPMENT
ACTIVE	58002	EGG ROOMS
ACTIVE	58004	HATCHING EGG TREATMENT
INACTIVE	58005	HATCHING EGG HANDLING ROOMS
ACTIVE	58006	HATCHERY EQUIPMENT
ACTIVE	58007	HATCHERIES
ACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
INACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
INACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65008	PULP AND PAPER MILL SYSTEMS
ACTIVE	65010	REVERSE OSMOSIS WATER SYSTEMS
ACTIVE	65012	INDUSTRIAL WASTE DISPOSAL SYSTEMS
INACTIVE	65013	DRAINAGE SYSTEMS (ALL OR UNSPECIFIED)
ACTIVE	65018	AIR WASHER WATER SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS
ACTIVE	65025	SECONDARY OIL RECOVERY INJECTION WATER
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
ACTIVE	65034	INDUSTR/COM LAKES/PONDS/RES W/NO HUMAN/WILDFL/ORNAMTL USE
ACTIVE	65038	INTERMITTENTLY FLOODED AREAS
ACTIVE	65043	METALWORKING MACHINERY COOLANT SYSTEMS
INACTIVE	66000	UNCULTIVATED AGRICULTURAL AREAS (ALL OR UNSPECIFIED)
INACTIVE	67000	UNCULTIVATED NONAGRICULTURAL AREAS (ALL OR UNSPECIFIED)
ACTIVE	67003	BUILDINGS AND STRUCTURES (NONAGRICULTURAL-OUTDOOR)
INACTIVE	67004	RIGHTS-OF-WAY (HIGHWAY)
INACTIVE	67005	RIGHTS-OF-WAY (RAILROAD)
INACTIVE	67006	RIGHTS-OF-WAY (UTILITY)
INACTIVE	67009	INDUSTRIAL SITES
INACTIVE	67013	RIGHTS-OF-WAY (UNSPECIFIED)
INACTIVE	68009	FENCEROWS OR HEDGEROWS (ALL OR UNSPECIFIED)
ACTIVE	70006	TRUCKS (NONFEED/NONFOOD)
ACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
ACTIVE	71003	BREWERIES
INACTIVE	71005	MILK PROCESSING PLANTS
ACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
ACTIVE	71019	BEVERAGE PROCESSING PLANTS



## SITES ON WHICH THIS CHEMICAL CAN BE USED 043901

## Glutaraldehyde

STATUS	SITE CODE	SITE NAME
INACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	72006	EATING ESTABLISHMENTS EQUIPMENT AND UTENSILS
ACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
INACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
ACTIVE	74010	HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)
ACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
ACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)
ACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
ACTIVE	74025	MEDICAL WASTE
INACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES
ACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	81000	INDUSTRIAL PRESERVATIVES (ALL OR UNSPECIFIED)
ACTIVE	81001	ADHESIVES (PRESERVATIVE INCORPORATION)
ACTIVE	81002	COATINGS (PRESERVATIVE INCORPORATION)
ACTIVE	81004	FUELS (ADDITIVE INCORPORATION)
ACTIVE	81007	METALWORKING CUTTING FLUIDS (PRESERVATIVE INCORPORATION)
ACTIVE	81008	OIL RECOVERY DRILL MUDS, PACKER FLUIDS (PRESERVATIVE INCORP)
ACTIVE	81009	PAINTS (LATEX) (IN-CAN PRESERVATION) (PRESERVATIVE INCORP)
ACTIVE	81010	PAPER AND PAPER PRODUCTS (PRESERVATIVE/ADDITIVE INCORP)
INACTIVE	81012	RESIN EMULSIONS (PRESERVATIVE/ADDITIVE INCORPORATION)
ACTIVE	81013	RUBBER PRODUCTS (PRESERVATIVE/ADDITIVE INCORPORATION)
ACTIVE	81014	SPECIALITY INDUSTRIAL PRODUCTS (PRESERVATIVE INCORPORATION)
ACTIVE	81016	WET-END, INDUSTRIAL PROCESS CHEMICALS (PRESERVATIVE INCORP)
INACTIVE	86001	HUMAN BEDDING
INACTIVE	87008	LAUNDRY EQUIPMENT
ACTIVE	88003	BATHROOM PREMISES
ACTIVE	88004	TOILET BOWLS AND URINALS
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
ACTIVE	90017	HUMAN WASTES (TYPHOID STOOLS, FECES, URINE)
ACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
ACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
ACTIVE	97002	HARD POROUS SURFACE TREATMENTS
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16,  
1%C18)

STATUS SITE CODE SITE NAME

ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	53006	SWINE (MEAT ANIMAL)
ACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
ACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	56020	ZOO ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	58006	HATCHERY EQUIPMENT
ACTIVE	58007	HATCHERIES
INACTIVE	60000	DAIRY FARM MILK HANDLING FACILITIES & EQUIPMENT (ALL/UNSPEC)
INACTIVE	60005	MILKING EQUIPMENT
ACTIVE	61000	FARM OR AGRICULTURAL STRUCTURES AND EQUIPMENT (UNSPECIFIED)
INACTIVE	61001	FARM OR AGRICULTURAL STRUCTURES/PREMISES (USE UNSPECIFIED)
ACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
ACTIVE	61007	MUSHROOM HOUSE ENVIRONS AND EQUIPMENT (EMPTY)
INACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
INACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	64000	WOOD PROTECTION TRT TO EXIST BUILDINGS OR PARTS OF BUILDINGS
ACTIVE	64001	WOOD PROTECTION TRT TO UNSEASONED FOREST PRODUCTS
ACTIVE	64002	WOOD PROTECTION TRT TO SEASONED FOREST PRODUCTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	64010	WOOD PROTECTION TRT TO FOREST PRODUCTS BY PRESSURE
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65011	SWIMMING POOL WATER SYSTEMS
ACTIVE	65012	INDUSTRIAL WASTE DISPOSAL SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
INACTIVE	70007	AUTOMOBILES, TAXIS, LIMOUSINES, RECREATIONAL VEHICLES & TIRES
INACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
INACTIVE	71001	BAKERIES
INACTIVE	71002	BOTTLING PLANTS
INACTIVE	71004	CANNERIES AND FROZEN FOOD PLANTS
INACTIVE	71005	MILK PROCESSING PLANTS
ACTIVE	71008	MEAT PROCESSING PLANTS
ACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
INACTIVE	71019	BEVERAGE PROCESSING PLANTS
INACTIVE	71022	FISH AND SEA FOOD PROCESSING PLANTS
INACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	72006	EATING ESTABLISHMENTS EQUIPMENT AND UTENSILS
INACTIVE	73002	FOOD STORES AND MARKETS
INACTIVE	73007	FOOD MARKETING, STORAGE & DISTRIBUTION EQUIPMENT & UTENSILS
ACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
INACTIVE	74008	HOSPITAL CRITICAL PREMISES (E.G. OPERATING ROOMS)
INACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
INACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
INACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)

No Pulp + - OK  
paper according  
to 21 CFR

No secondary  
oil recovery  
drip and  
packer



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16,  
1%C18)

## STATUS SITE CODE SITE NAME

INACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
INACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES
INACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	81015	TEXTILES, FIBERS, CORDAGE (PRESERVATIVE/ADDITIVE INCORP)
INACTIVE	86003	HUMAN CLOTHING
INACTIVE	86005	HUMAN FOOTWEAR
INACTIVE	87006	LAUNDRY (HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87007	DIAPERS (PRESOAK, HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87008	LAUNDRY EQUIPMENT
ACTIVE	88003	BATHROOM PREMISES
INACTIVE	88004	TOILET BOWLS AND URINALS
INACTIVE	88005	TOILET TANKS, OR WATER CLOSETS
ACTIVE	88006	PORTABLE TOILETS, LATRINE BUCKETS, AND CHEMICAL TOILETS
INACTIVE	88009	DIAPER PAILS
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
INACTIVE	90014	HEW (FDA/BVM) (FOR PEST CLAIMS ADMINISTERED BY FDA OR BVM)
INACTIVE	90016	NO SITE. USE WHEN NO SITE IS ASSOCIATED WITH PESTS
INACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
INACTIVE	97000	SURFACES TREATMENTS (ALL OR UNSPECIFIED)
INACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
INACTIVE	97002	HARD POROUS SURFACE TREATMENTS
ACTIVE	97005	WOOD SURFACE TREATMENTS (SEASONED/UNPAINTED)
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C <sub>12</sub> 67%, C <sub>14</sub> 25%, C <sub>16</sub> 7%, C <sub>18</sub> 1%) dimethyl benzyl ammonium chloride	26.00%
Glutaraldehyde	7.00%
INERT INGREDIENTS	67.00%
TOTAL	100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001

66171-CA-001

Patent Number: 5,891,922

## NFPA HAZARD CLASSIFICATION

HEALTH	FIRE	REACTIVITY	SPECIFIC
3	1	1	None

\* KEY \*

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing, rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for further treatment advice.

**IF INHALED:** If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible; call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for further treatment advice, have person sip a glass of water if able to swallow, do not induce vomiting unless told to do so by the poison control center or doctor; do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents) call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by

PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607

Net Contents: \_\_\_\_\_ U.S. Gallons Batch No: \_\_\_\_\_



59894-4, 10352-32 (A) ← different AI's

#### WATER FLOODS:

Synergize should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. Initial Treatment: When the system is noticeably contaminated, add 100 - 200 ppm Synergize (0.30-0.60 gallons Synergize per 1000 gallons flood water). Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 20-100 ppm Synergize (0.03-.30 gallons SYNERGIZE per 1000 gallons flood water) weekly, or as needed to maintain control.

59894-4, 10352-32 (B) ← different AI's

#### DRILLING MUDS:

SYNERGIZE should be added to a drifting fluid system at a point of uniform mixing such as a circulating tank. Initial Treatment: Add 50 - 1000 ppm SYNERGIZE (0.3-6.0 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. Maintenance Dosage: As the total volume of the system increases due to increased well depths, maintain 50-1000 ppm SYNERGIZE level by adding 0.30-6.0 gallons of SYNERGIZE per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

note on barrels = 42 gallons ← different AI's

59894-4 (C)

COMPLETION AND WORKOVER FLUIDS: SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm SYNERGIZE (0.30-6.0 gallons SYNERGIZE per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

59894-4, 10352-32 (D) ← different AI's

#### PACKER FLUIDS:

SYNERGIZE should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm SYNERGIZE (0.30-3.60 gallons SYNERGIZE per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

10352-32 (E) ← different AI's

#### GAS PRODUCTION AND TRANSMISSION PIPELINE AND SYSTEMS:

Synergize should be added to a gas production and transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of Synergize through the internal surface of the pipeline. To facilitate application, it may be desirable to dilute Synergize with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

10352-32 (F) ← different AI's

#### GAS STORAGE WELLS AND SYSTEMS:

Individual injection wells should be treated with a sufficient quantity of Synergize to produce a concentration of 500 - 5000 ppm Synergize when diluted by the water present in the formation. Injections should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual drips should be treated with a sufficient quantity of Synergize to produce a concentration of 200 - 2000 ppm Synergize when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

#### HYDROTESTING:

Water used to hydrotest pipelines or vessels should contain 100 - 4000 ppm Synergize (0.3-12.0 gallons Synergize per 1000 gallons water) depending on water quality and length of time equipment will remain idle.

#### PIPELINE PIGGING AND SCRAPING OPERATIONS:

Add Synergize to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient Synergize should be added to produce a concentration of 0.1 - 1.0% (0.30-3.0 gallons Synergize per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

#### PULP AND PAPER:

For control of bacteria and associated slime in pulp, paper or paperboard systems use 0.25-1.5 lbs Synergize per ton of total paper (dry basis) production. Intermittent application to thick stock chests has proven most effective. Typical feed cycle would be 1 hour on at a dosage of 4.0 lbs/ton and then 7 hours off to give a total average feed of 0.5 lbs/ton of fiber.

Feed Synergize directly from the drum or diluted water. Application may be anywhere in the system prior to sheet formation or to the recirculating white water.

10324-97 (J) ← different AI's

#### INITIAL APPLICATION FOR INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS: SLUG OR INTERMITTENT FEEDING:

When growth is evident apply 7.6-15.2 fl ozs (19.5 ppm to 39 ppm) of this product per 1000 gallons of contained water. This dose may be repeated until control is achieved. When heavy growth is present system should be cleaned before treatment is begun.

10324-97 (K) ← different AI's

#### SUBSEQUENT APPLICATION

When microbial control is evident apply 5 to 10 fl ounces (12.8 ppm to 25.6 ppm) of this product per 1000 gallons of contained water. The above directions should be followed once per week or as needed to maintain control.

10324-108 (L) ← different AI's

#### VETERINARY PRACTICE/ANIMAL CARE ANIMAL LABORATORY/ZOOS/PET SHOP/KENNELS DISINFECTION DIRECTIONS:

For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animal feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 1 ounce of Synergize per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.

10352-32 (G) ← different AI's

10352-32 (H) ← different AI's

1706-151 (I) ← different AI's

KEY

follow  
FAD  
directions

direction should  
include owners.

limit to no more than  
Dow or BASF label

probably  
OK

(confirm that you have)  
must have efficacy  
data in file for  
non public health  
uses.



**GKN-O CONCENTRATE MICROBIOCIDES**

WATER TREATMENT MICROBIOCIDES FOR BUILDING AND INDUSTRIAL COOLING TOWERS, AND  
OIL FIELD WATER FLOODS OR SALT WATER DISPOSAL SYSTEMS.

Active IngredientsGlutaraldehyde

25.75%

Alkyl (60% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>18</sub>, 5% C<sub>12</sub>)

dimethyl benzyl ammonium chloride

6.25%

Alkyl (68% C<sub>12</sub>, 32% C<sub>14</sub>) dimethyl ethyl

benzyl ammonium chloride

6.25%

Inert Ingredients

61.75%

TOTAL

100.00%

**KEEP OUT OF REACH OF CHILDREN****DANGER****STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with water for at least 15 minutes. Get immediate medical attention.

IF ON SKIN: Wash with plenty of water. Get medical attention.

IF SWALLOWED: DO NOT INDUCE VOMITING. Give at least two glasses of water. Seek medical advice with urgency.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

M & S RESEARCH, INC  
11500 WEST HILL DRIVE  
ROCKVILLE, MD 20852

Manufactured by: Champion Technologies, Inc.  
3355 W. Alabama, Suite 400  
Houston, Texas 77098

**ACCEPTED**

DEC 03 1998

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 59894-4

EPA Registration No.

59894-4

EPA Establishment No.

8133-TX-01

8133-TX-02

8133-CA-01

8133-LA-82

**NET CONTENTS**

Net Volume

5 U.S. Gals

55 U.S. Gals

Net Weight

45 lbs

500 lbs



## PRECAUTIONARY STATEMENTS

**DANGER**

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Keep Out of Reach of Children**

**Corrosive.** Causes severe eye and skin damage. May cause skin sensitization. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles, protective clothing and rubber gloves. Avoid breathing vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or any other waters, unless in accordance with requirements of National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product into sewer systems without previously notifying local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

**STORAGE AND HANDLING**

GKN-O solutions are corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel or reinforced epoxy-plastic equipment. To avoid freezing, locate the storage tank inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100° F can be tolerated, but the preferred maximum storage temperature is about 80° F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

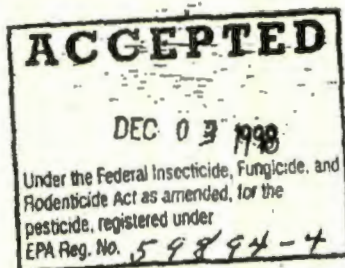
**PESTICIDE DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL**

Metal containers should be triple rinsed (or equivalent). Then, offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities. Plastic containers may be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

**USE AS HYDROGEN SULFIDE SCAVENGER (NON-BIOCIDAL):** This product may also be used as a hydrogen sulfide scavenger in oil field processing and refining operations. For hydrogen sulfide scavenging applications, inject GKN-O full strength to attain concentrations of up to 500 ppm of active ingredient in target areas on a continuous basis or in slug treatment.





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MASTER LABEL

GKN-O RIGHT PANEL 1

09-24-98

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

### WATER FLOODS

(A)

GKN-O Microbiocide should be added to a water flood system at a point of uniform mixing such as the area of addition of make up water to the holding tank. **Initial Treatment:** When the system is noticeably contaminated, add 100 - 200 ppm GKN-O (0.09 - 0.18 gallons GKN-O per 1000 gallons flood water). Repeat until control is achieved. **Subsequent Dose:** When microbial control is evident, add 20 - 100 ppm GKN-O (0.018 - 0.09 gallons GKN-O per 1000 gallons flood water) weekly, or as needed to maintain control.

### DRILLING MUDS

(B)

GKN-O Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as a circulating tank. **Initial Treatment:** Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to a freshly prepared drilling fluid depending on the severity of contamination. **Maintenance Dosage:** As the total volume of the system increases due to increased well depths, maintain 50 - 1000 ppm GKN-O level by adding 0.19 to 3.8 gallons of GKN-O per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

### COMPLETION AND WORKOVER FLUIDS

(C)

GKN-O Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 - 1000 ppm GKN-O (0.19 - 3.8 gallons GKN-O per 100 barrels of fluid) to freshly prepared fluid depending on the severity of contamination. Circulate the workover fluid system until the fluid returns clean, shut the system down and idle for several hours. Remove all the workover fluid. The well should be ready for productive use.

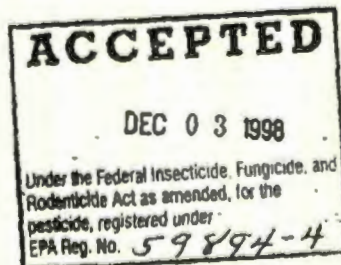
### PACKER FLUIDS

(D)

GKN-O Microbiocide should be added to a packer fluid at a point of uniform mixing such as circulating holding tank. Add 50 - 600 ppm GKN-O (0.19 - 2.3 gallons GKN-O per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

HEALTH	2
FIRE	2
REACTIVITY	0
PERSONAL PROTECTION	-

IN A CHEMICAL EMERGENCY CALL CHEMTREC AT 1-800-424-9300; BEFORE USING CONSULT MATERIAL SAFETY DATA SHEET. TO REQUEST A MATERIAL SAFETY DATA SHEET, CONTACT CHAMPION TECHNOLOGIES, INC. 713-431-2561, OR WRITE P.O. BOX 450499, HOUSTON, TEXAS 77245-0499



4.74

**DIRECTIONS FOR USE**  
(continued from right panel 1)**COOLING TOWERS, AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS**

GKN-O Microbiocide should be added to a water treatment system at a point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with GKN-O Microbiocide. Under these conditions, blow down should be discontinued for up to 24 hours.

**INTERMITTENT (SLUG DOSE) METHOD**

(1) Initial Dose: When the system is noticeably fouled, add 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system. Repeat until control is achieved.

(2) Subsequent Dose: When microbial control is evident, add 20 - 50 ppm (0.05 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water to the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

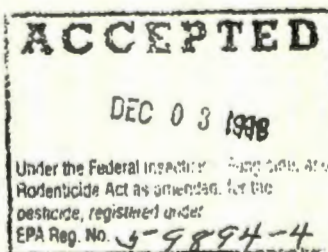
(3) Initial Dose: When the system is noticeably fouled, apply 50 - 100 ppm (0.12 - 0.24 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system.

(4) Subsequent Dose: Maintain this treatment level by starting a continuous feed of 10 - 50 ppm (0.025 - 0.12 gallons) of GKN-O Microbiocide per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

**HEAT TRANSFER SYSTEMS**

(Evaporate condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

GKN-O Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.





Union Carbide Corporation  
P. O. Box 670  
Bound Brook, NJ 08805

FEB 14 1995

Attention: Ms. Joan E. Young,  
Regulatory Affairs Manager

Subject: UCARCIDE 142 Antimicrobial  
EPA Registration Number 10352-32  
Your Submission Dated February 25, 1994  
EPA Received Date March 8, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to amend the Hazard Warnings Statements, is acceptable provided that you make the following labeling revisions:

The heading "Hazards to Humans and Domestic Animals" is acceptable.

Revise the statement "May cause allergic skin reaction" to read "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

The addition of the statement "Causes asthmatic signs and symptoms in hyper-reactive individuals" to the product labeling is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-305-6966.

003

Sincerely,

WCF

m. j. an

Walter C. Francis  
Acting Product Manager(31)  
Antimicrobial Program Branch  
Registration Division(7505C)

CONCURRENCES

SYMBOL								
SURNAME								
DATE								



293

DH  
G

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER  
KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. May be fatal if swallowed or absorbed through skin. Harmful if inhaled. May cause allergic skin reaction. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

UCARCIDE® 142 Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -14°C (7°F). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label, (b) that the product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on the label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**



Active Ingredients: Glutaraldehyde 42.5%  
Alky (C<sub>14</sub> 50%, C<sub>12</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride 7.5%  
Inert Ingredients: 50.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-32  
UCARCIDE is a registered trademark  
of Union Carbide  
Net Contents 55 gallons

EPA Est. No. 10352-WV-2  
UCC-L90305(E 02/94)  
Made In USA  
PE0294

90305	CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	
	55 GALLONS		ID NUMBER UN 1780	PG 11
	500 POUNDS	HAZARD CLASS		
	NET WEIGHT			

ACCEPTED PRODUCT OF  
EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)  
OUTSIDE USA 01-304-744-3487

FEB 14 1995

**BEST AVAILABLE COPY**

It is a violation of Federal law to use

**WATER FLOODS**

UCARCIDE® 142 Antimicrobial sh

Initial Treatment: When the system 142 Antimicrobial to the system (0 flood water). Repeat until control. Subsequent Dose: When microb Antimicrobial (0.02 to 5.0 gallons L system weekly, or as needed to m

**DRILLING, COMPLETION,**

UCARCIDE® 142 Antimicrobial sh such as the circulating mud tank.

Initial Treatment: Add 50 to 1000 UCARCIDE® 142 Antimicrobial p severity of contamination. Maintenance Dosage: Maintain a by adding 0.2 to 4.0 gallons of UC as needed, depending on the sev-

**PACKER FLUIDS**

UCARCIDE® 142 Antimicrobial s as a circulating holding tank. Add UCARCIDE® 142 Antimicrobial p severity of contamination. Seal p production tube.

**GAS PRODUCTION AND**

UCARCIDE® 142 Antimicrobial s direct injection. The application s UCARCIDE® 142 Antimicrobial application, it may be desirable to solvent immediately before use. control.

**GAS STORAGE WELL**

Individual injection wells should t Antimicrobial to produce a conce divided by the water present in th (during the summer). Injections

Individual drips should be treated produce a concentration of 200 t water present in the drip. Inject

**HYDROTESTING**

Water used to hydrotest pipeline Antimicrobial (0.1 to 4.0 gallons water quality and length of time

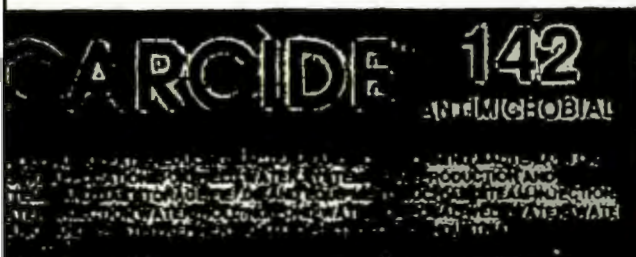
**PIPELINE PIGGING /**

Add UCARCIDE® 142 Antimicro water volume can be kept to a r Sufficient UCARCIDE® 142 Ant (0.1 to 1.0 gallon UCARCIDE® the pipeline and the severity of t

**ST**

PESTICIDE DISPOSAL: Do not is prohibited. Pesticide wastes a is a violation of Federal law. If th instructions, contact your State P Waste representative at the near CONTAINER DISPOSAL: Most offer for recycling or recondition approved by state and local auth and local authorities, by burning incinerated. Do not cut or weld c





Glutaraldehyde 42.5%  
Alkyl (C<sub>12</sub> 50%, C<sub>10</sub> 40%, C<sub>16</sub> 10%)  
dimethyl benzyl ammonium chloride 7.5%  
50.0%  
100.0%

## OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

plenty of water for at least 15 minutes. Get immediate medical attention.

plenty of soap and water. Get medical attention.

If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

CE VOMITING. Do not give anything to drink. Seek medical advice with

may cause lung damage. Probable mucosal damage may contraindicate the

### FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

### UNION CARBIDE CORPORATION

bury, CT 06817-0001

EPA Est. No. 10352-WV-2

UCC-L90305(E 02/94)

Made in USA

PE0294

CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID IN QCS (CONTAINS GLUTARALDEHYDE)
5 GALLONS		
5 POUNDS	HAZARD CLASS	ID NUMBER UN 1760
NET WEIGHT		PG II

24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-422-4367)

OUTSIDE USA 01-304-744-3487

BEST AVAILABLE COPY

## DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### WATER FLOODS

UCARCIDE® 142 Antimicrobial should be added to a water flood system at a point of uniform mixing

Initial Treatment: When the system is noticeably contaminated, add 100 to 5000 ppm UCARCIDE® 142 Antimicrobial to the system (0.1 to 5.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons flood water). Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 20 to 5000 ppm UCARCIDE® 142 Antimicrobial (0.02 to 5.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons flood water) to the system weekly, or as needed to maintain control.

### DRILLING, COMPLETION, AND WORKOVER FLUIDS

UCARCIDE® 142 Antimicrobial should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial Treatment: Add 50 to 1000 ppm UCARCIDE® 142 Antimicrobial (0.2 to 4.0 gallons UCARCIDE® 142 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

Maintenance Dosage: Maintain a concentration of 50 to 1000 ppm UCARCIDE® 142 Antimicrobial by adding 0.2 to 4.0 gallons of UCARCIDE® 142 Antimicrobial per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

### PACKER FLUIDS

UCARCIDE® 142 Antimicrobial should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 to 800 ppm UCARCIDE® 142 Antimicrobial (0.2 to 2.5 gallons UCARCIDE® 142 Antimicrobial per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the well between the casing and production tube.

### GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS

UCARCIDE® 142 Antimicrobial should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of the UCARCIDE® 142 Antimicrobial through the entire internal surface of the pipeline. To facilitate application, it may be desirable to dilute the UCARCIDE® 142 Antimicrobial with an appropriate solvent immediately before use. Injections to the system should be weekly, or as needed to maintain control.

### GAS STORAGE WELLS AND SYSTEMS

Individual injection wells should be treated with a sufficient quantity of UCARCIDE® 142 Antimicrobial to produce a concentration of 500 to 5000 ppm UCARCIDE® 142 Antimicrobial when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control.

Individual dips should be treated with a sufficient quantity of UCARCIDE® 142 Antimicrobial to produce a concentration of 200 to 2000 ppm UCARCIDE® 142 Antimicrobial when diluted by the water present in the dip. Injections should be repeated yearly, or as needed to maintain control.

### HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 100 to 4000 ppm UCARCIDE® 142 Antimicrobial (0.1 to 4.0 gallons UCARCIDE® 142 Antimicrobial per 1000 gallons water), depending on water quality and length of time the equipment will remain idle.

### PIPELINE PIGGING AND SCRAPING OPERATIONS


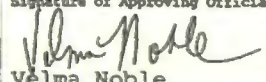
Add UCARCIDE® 142 Antimicrobial to a slug of water immediately following the scraper (ideally the water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient UCARCIDE® 142 Antimicrobial should be added to produce a concentration of 0.1 - 1% (0.1 to 1.0 gallon UCARCIDE® 142 Antimicrobial per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.



 <p>U S ENVIRONMENTAL PROTECTION AGENCY                  Office of Pesticide Programs                  Registration Division (H7505C)                  401 "M" St., S.W.                  Washington, D.C. 20460</p>	EPA Reg Number 10324-97	Date of Issuance MAY 8 1998
	Term of Issuance CONDITIONAL	
	Name of Pesticide Product Maquat MC1416-FB	
NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration _____ Reregistration (under FIFRA as amended)		
Name and Address of Registrant (include ZIP Code) Mason Chemical Company 721 Algonquin Road Arlington Heights, IL 60005		
<p><small>Note: Changes in labeling of a pesticide or substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</small></p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency in order to protect health and the environment. The Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you.</p> <p>1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</p> <p>2. Add the phrase EPA Registration Number "EPA Reg. No. 10324-97".</p>		
Signature of Approving Official  Velma Noble Regulatory Management Branch 1 Antimicrobial Division (7510W)	Date MAY 8 1998	

EPA Form 8570-6							
CONCURRENCES							
SYMBOL	7510W						
SURNAME	5/8/98						
DATE	5/8/98						



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

page 3  
EPA Reg No. 10324-97

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the final printed label prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510W)

CONCURRENCES							
SYMBOL	Enclosure						
SURNAME	7510W-T. Lantz-5/8, 98-10324-OT						
DATE							

# PRECAUTIONARY STATEMENTS

## DANGER

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN. CORROSIVE  
Causes severe eye and skin damage. Do not get in  
eyes, on skin or on clothing. Wash thoroughly with soap  
and water after handling. Harmful or fatal if swallowed.  
Wear goggles or face shield and rubber gloves when  
handling. Avoid contamination of food. Remove  
contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent  
containing this product into lakes, streams, ponds,  
estuaries, oceans or other waters unless in accordance  
with the requirements of a National Pollutant Discharge  
Elimination System (NPDES) permit and the permitting  
authority has been notified in writing prior to discharge.  
Do not discharge effluent containing this product to  
sewer systems without previously notifying the local  
sewage treatment plant authority. For guidance contact  
your State Water Board or Regional Office of the EPA.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a  
manner inconsistent with its labeling.

### INITIAL APPLICATION FOR INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER TOWERS: SLUG OR INTERMITTENT FEEDING:

When growth is evident apply 2.5 to 5.0 fl oz (19.5  
ppm to 39 ppm) of this product per 1000 gallons of  
contained water. This dose may be repeated until  
control is achieved. When heavy growth is present  
system should be cleaned before treatment is begun.

### SUBSEQUENT APPLICATION

Apply 1.5 to 3.0 fl oz. (12 ppm to 23 ppm) of this  
product per 1000 gallons of contained water. The above  
directions should be followed once per week or as  
needed to maintain control.

### PRODUCT APPLICATION

This product is to be fed at full strength at a point of  
maximum water circulation in the cooling tower basin.  
Tower bleed off valves should be closed to permit a  
retention time of 4 hours.

### PULP AND PAPER MILLS

Depending on the type of stock, quality of raw water,  
complexity of the system, and type and degree of  
contamination dosage will vary from 1.2 to 2.4 fl oz. of  
this product per ton of finished paper.

### APPLICATION

This product may be drip fed continuously from the drum  
or fed by suitable pumps. This product should be fed as  
early as possible in the system. Suitable sites are the  
hydropulper, machine chest or broke system.

## MAQUAT MC1416-FB

Controls bacteria and algae in industrial and/or commercial  
recirculating cooling water towers. Controls bacteria and fungal  
slimes in pulp and paper mills.

### ACTIVE INGREDIENT:

Alky (50% C<sub>14</sub>, 30% C<sub>16</sub>, 5% C<sub>12</sub>, 5% C<sub>18</sub>)  
Dimethyl benzyl ammonium chloride.....50%

INERT INGREDIENTS.....50%

TOTAL.....100%

Weight approximately 8 lbs per gallon

## KEEP OUT OF REACH OF CHILDREN

## DANGER

See left panel for additional  
precautionary statements

### STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of  
water for at least 15 minutes. For eyes, call a physician. Remove  
and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of egg whites, gelatin  
solution; or if these are not available, drink large quantities of  
water. Avoid alcohol. Call a physician immediately.

### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric  
lavage

## MASON CHEMICAL COMPANY "THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road  
Arlington Heights, IL 60005  
847-290-1621  
Toll Free:  
1-800-362-1855

E.P.A. Reg. No. 10324-OT  
E.P.A. Est. No. 10324-IL-1

## STORAGE AND DISPOSAL

### 1. PROHIBITIONS

DO NOT CONTAMINATE WATER, FOOD OR FEED  
BY STORAGE OR DISPOSAL. OPEN DUMPING IS  
PROHIBITED. DO NOT REUSE EMPTY  
CONTAINER.

### 2. STORAGE INSTRUCTIONS

STORE IN ORIGINAL CONTAINERS AND PLACE IN  
LOCKED STORAGE AREA. KEEP FROM  
FREEZING.

### 3. SPILL OR LEAK PROCEDURES

SMALL SPILLS MAY BE MOPPED UP OR FLUSHED  
AWAY WITH WATER OR ABSORBED ON SOME  
ABSORBENT MATERIAL AND INCINERATED.

### 4. PESTICIDE DISPOSAL

PESTICIDE WASTES ARE ACUTELY HAZARDOUS.  
IMPROPER DISPOSAL OF EXCESS PESTICIDE,  
SPRAY MIXTURE OR RINSATE IS A VIOLATION OF  
FEDERAL LAW. IF THESE WASTES CANNOT BE  
DISPOSED OF BY THE USER ACCORDING TO  
LABEL INSTRUCTIONS, CONTACT YOUR STATE  
PESTICIDE OR ENVIRONMENTAL CONTROL  
AGENCY, OR THE HAZARDOUS WASTE  
REPRESENTATIVE AT THE NEAREST EPA  
REGIONAL OFFICE FOR GUIDANCE.

### 5. CONTAINER DISPOSAL

TRIPLE RINSE (OR EQUIVALENT). THEN OFFER  
FOR RECYCLING OR RECONDITIONING, OR  
PUNCTURE AND DISPOSE OF IN A SANITARY  
LANDFILL, OR OTHER PROCEDURES APPROVED  
BY STATE AND LOCAL AUTHORITIES.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY - 8 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

10324-97

NET CONTENTS

BATCH NO



MAQUAT 256 MN is a phosphate free, pH neutral formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

Maquat 256 MN for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities.
- Day care centers and nurseries.
- Restaurants and bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and whole sale establishments, dressing rooms and laundries.
- Crime scenes and funeral homes.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, athletic facilities and locker rooms.
- Camp grounds, play grounds, and recreational facilities.
- Food processing plants, dairy farms, hog farms, poultry and turkey farms and egg processing plants.
- Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, and other animal care facilities.
- Household and automotive garages, boats, ships, campers, trailers, mobile homes, cars buses, trains, taxis and airplanes.

MAQUAT 256 MN is a one step neutral disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1) and inhibits the growth of mold and mildew and their odors when used as directed.

MAQUAT 256 MN when used as directed, is formulated to disinfect hard non-porous inanimate environmental surfaces such as:

- Non Food Contact Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Tables, chairs, desks, bed frames, walls, cabinets, doorknobs and garbage cans.
- Picnic tables and outdoor furniture.
- Telephones.
- Non-food contact counter tops, sinks, refrigerators exteriors, coolers, freezer exteriors, stovetops, appliances, non-food contact equipment, shelves, racks and carts.
- Highchairs.
- Shower stalls, shower doors and curtains, tubs and glazed tiles, toilets, urinals, porcelain tile and restroom fixtures.
- Kennels and cages.
- Windows and mirrors.
- For larger areas such as operating rooms and patent care facilities, this product is designed to provide both general cleaning and disinfection.

**ACCEPTED**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10324-108

MAQUAT 256 M : a no rinse neutral pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

When used as directed, MAQUAT 256 MN will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage area, and other places where bacterial growth can cause mal odors.

MAQUAT 256 MN is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.

MAQUAT 256 MN cleans, shines, deodorizes and disinfects all hard non-porous listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

MAQUAT 256 MN is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

MAQUAT 256 MN is for use in kitchens, bathrooms and other house hold areas.

MAQUAT 256 MN is an economical concentrate that can be used with a mop and bucket, trigger sprayers or sponge.

MAQUAT 256 MN is a neutral pH multi surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non food contact glass surfaces.

MAQUAT 256 MN is an effective one step sanitizer-cleaner for use on non-food contact surfaces.

MAQUAT 265 MN is recommended for Poultry Premise Sanitation (Hatcheries)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

MAQUAT 265 MN is recommended for Swine Premise Sanitation:

Farrowing Barns and Areas	Dressing Plants	Blocks
Waterers and Feeders	Loading Equipment	Creep Area
Hauling Equipment	Nursery	Chutes

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

(This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection)

#### PREPARATION OF USE SOLUTION:

For water hardness up to 400 ppm add ½ ounce per gallon (4 milliliters per liter) of water (1:256) to disinfect hard non-porous surfaces.

MAQUAT 265 MN is a Hospital Use Disinfectant at ½ ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 400 ppm hard water.



**CAUTIONARY STATEMENTS  
DANGERS TO HUMANS AND  
DOMESTIC ANIMALS**

**DANGER:**

**IRRITATIVE. CAUSES SEVERE EYE  
OR SKIN DAMAGE. HARMFUL OR  
FATAL IF SWALLOWED.**

Do not get in eyes, on skin or on clothing. Wear  
goggles or face shield and rubber gloves when  
mixing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge  
into lakes, streams, ponds or public waters un-  
less in accordance with an NPDES permit. For guid-  
ance, contact your Regional Office of the EPA.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**MIXING AND DISPOSAL**

**MIXING:** Do not contaminate water, food, or feed  
storage or disposal. Open dumping is prohibited.

**DISPOSAL:** Pesticide wastes are acutely hazardous.  
Proper disposal of excess pesticide, spray mix-  
ture, or rinsate is a violation of Federal Law.  
If these wastes cannot be disposed of by use ac-  
cording to label instructions, contact your State  
Pesticide or Environmental Control Agency, or the  
Regional Waste Management Office at the nearest  
Regional Office for guidance.

**REUSE OF CONTAINERS:** Triple rinse (or equivalent)  
and offer for recycling or reconditioning, or  
store and dispose of in a sanitary landfill,  
or by other procedures approved by state and  
local authorities.

EPA Reg. No. 1706-151  
EPA Est. No. 1706-1L-1



**NALCO®**

**NALCON®**

**7648**

**MICROORGANISM CONTROL CHEMICAL**

**ACTIVE INGREDIENTS**

n-alkyl (60/C14, 30/C16, 5/C12, 5/C18)  
dimethyl benzyl ammonium chloride  
n-dialkyl (60/C14, 30/C16, 5/C12, 5/C18)  
methyl benzyl ammonium chloride

**INERT INGREDIENTS**

Total

26.9%

5.1%

68.0%

100.0%

Weight per Gallon=8.25 lbs

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**IN CASE OF CONTACT:** Immediately flush eyes or skin with plenty of water for  
at least 15 minutes. For eyes, call a physician. Remove and wash contam-  
inated clothes before reuse.

**IF SWALLOWED. DO NOT INDUCE VOMITING.** Give egg whites, gelatin solution  
or if these are not readily available, give large amounts of water. Call  
a physician. Never give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of  
gastric lavage. Measures against circulatory shock, respiratory depression  
and convulsion may be required.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**NALCO CHEMICAL COMPANY**

6216 WEST 66TH PLACE

CHICAGO, IL 60638

TELEPHONE (312) 420-1400

TELEFAX (312) 420-1400

**DIRECTIONS FOR USE:**

It is a violation of Federal Law to use this product  
in a manner inconsistent with its labeling.

For control of bacteria and associated slime in pulp,  
paper or paperboard systems use 0.25 - 1.5 lbs  
NALCON 7648 per ton of total paper (dry basis)  
production. Intermittent application to thick stock  
chests has proven most effective. Typical feed cycle  
would be 1 hour on at a dosage of 4.0 lbs/ton and  
then 7 hours off to give a total average feed of 0.5  
lbs/ton fiber.

Feed NALCO 7648 directly from the drum or diluted  
water. Application may be anywhere in the system  
prior to sheet formation or to the recirculating  
white water.

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

**BEST AVAILABLE COPY**

NOTIFICATION  
LABEL NOT RECOVERED  
PER EPA NOTICE 84-6  
DATE JUN 1 1990

06.07.9

30.04.3

NET 5.110



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

(If container is 5 gallons or larger the following statement must appear on the label)

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

(If the container is greater than one gallon use the following storage and disposal statements)

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**PESTICIDE DISPOSAL** - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL** - (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less use the following storage and disposal statements)

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to small children. Do not store on side. Avoid creasing or impacting of side walls. Do not reuse empty container. Wrap and discard in trash (or recycle).

**J.AQUAT 256 MN**

Disinfectant, Cleaner, Mildewstat, Sanitizer (nonfood contact surfaces) Virucide\*, Deodorizer for Hospitals, Institutional, Industrial and School Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hardness (Calculated as  $\text{CaCO}_3$ ) in the presence of 5% serum contamination.

**ACTIVE INGREDIENTS:**

Octyl Decyl Dimethyl Ammonium Chloride .....	6.510%
Didecyl Dimethyl Ammonium Chloride .....	3.255%
Dioctyl Dimethyl Ammonium Chloride .....	3.255%
Alkyl ( $\text{C}_{14}$ , 50%; $\text{C}_{12}$ , 40%; $\text{C}_{16}$ , 10%) dimethyl benzyl ammonium chloride .....	8.680%

<b>INERT INGREDIENTS:</b> .....	78.300%
<b>TOTAL</b> .....	100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**Statement of Practical Treatment**

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate gastric lavage.



**MASON CHEMICAL COMPANY  
"THE QUATERNARY SPECIALISTS"**

721 W. Algonquin Road  
Arlington Heights, IL 60005  
847-290-1621  
Toll Free:  
1-800-362-1855

E.P.A. Reg. No. 10324-108  
E.P.A. Est. No. 10324-IL-1

NET CONTENTS

BATCH NO

**ACCEPTED**

JAN 12 2001

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, the sale,  
distribution, and use of this  
product are regulated under

10324-108



MAQUAT 256 MN is a phosphate free, pH neutral formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

Maquat 256 MN for use in:

- Hospitals, nursing homes, medical and dental offices and clinics, operating rooms, isolation wards, and medical research facilities.
- Day care centers and nurseries.
- Restaurants and bars, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and whole sale establishments, dressing rooms and laundries.
- Crime scenes and funeral homes.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels and transportation terminals.
- Kitchens, bathrooms and other household areas.
- Institutions, schools and colleges, churches, classrooms, athletic facilities and locker rooms.
- Camp grounds, play grounds, and recreational facilities.
- Food processing plants, dairy farms, hog farms, poultry and turkey farms and egg processing plants.
- Veterinary clinics, animal life science laboratories, kennels, breeding and grooming establishments, pet animal quarters, zoos, pet shops, and other animal care facilities.
- Household and automotive garages, boats, ships, campers, trailers, mobile homes, cars buses, trains, taxis and airplanes.

MAQUAT 256 MN is a one step neutral disinfectant that is effective against a broad spectrum of bacteria, is virucidal\* (including HIV-1) and inhibits the growth of mold and mildew and their odors when used as directed.

MAQUAT 256 MN when used as directed, is formulated to disinfect hard non-porous inanimate environmental surfaces such as:

- Non Food Contact Glass, metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass, granite, marble, plastic, chrome and vinyl.
- Tables, chairs, desks, bed frames, walls, cabinets, doorknobs and garbage cans.
- Picnic tables and outdoor furniture.
- Telephones.
- Non-food contact counter tops, sinks, refrigerators exteriors, coolers, freezer exteriors, stovetops, appliances, non-food contact equipment, shelves, racks and carts.
- Highchairs.
- Shower stalls, shower doors and curtains, tubs and glazed tiles, toilets, urinals, porcelain tile and restroom fixtures.
- Kennels and cages.
- Windows and mirrors.
- For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection.

**ACCEPTED**

JAN 12 2007

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10324-108

MAQUAT 256 MN is a no rinse neutral pH disinfectant cleaner that disinfects, cleans and deodorizes in one labor saving step.

When used as directed, MAQUAT 256 MN will deodorize surfaces in toilet areas, behind and under sinks and counters, garbage cans and garbage storage area, and other places where bacterial growth can cause mal odors.

MAQUAT 256 MN is formulated to a neutral pH, yet provides effective cleaning strength that will not dull high gloss floor finishes with repeated use.

MAQUAT 256 MN cleans, shines, deodorizes and disinfects all hard non-porous listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

MAQUAT 256 MN is recommended for non-scratch cleaning of showers and tubs, shower doors and curtains, fixtures and toilet bowls.

MAQUAT 256 MN is for use in kitchens, bathrooms and other household areas.

MAQUAT 256 MN is an economical concentrate that can be used with a mop and bucket, trigger sprayers or sponge.

MAQUAT 256 MN is a neutral pH multi surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non food contact glass surfaces.

MAQUAT 256 MN is an effective one step sanitizer-cleaner for use on non-food contact surfaces.

MAQUAT 256 MN is recommended for Poultry Premise Sanitation (Hatcheries)

Egg Receiving Area	Tray Dumping Area	Chick Processing Area
Egg Holding Area	Chick Holding Area	Chick Loading Area
Setter Room	Hatchery Room	Poultry Buildings

MAQUAT 256 MN is recommended for Swine Premise Sanitation:

Farrowing Bams and Areas	Dressing Plants	Blocks
Waterers and Feeders	Loading Equipment	Creep Area
Hauling Equipment	Nursery	Chutes

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

(This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection)

#### PREPARATION OF USE SOLUTION:

For water hardness up to 400 ppm add ½ ounce per gallon (4 milliliters per liter) of water (1:256) to disinfect hard non-porous surfaces.

MAQUAT 256 MN is a Hospital Use Disinfectant at ½ ounce per gallon (4 milliliters per liter), (1:256 dilution), modified in the presence of 400 ppm hard water.



MAQUAT 265 MN is Bactericidal according to the AOAC. Dilution Test method, *Virucidal* according to the virucidal qualification on hard inanimate surfaces, modified in the presence of 5% organic serum against.

*Brevibacterium ammoniagenes*  
*Burkholderia cepacia*  
*Campylobacter jejuni*  
*Chlamydia psittaci*  
*Enterobacter aerogenes*  
*Enterobacter cloacae*  
*Enterococcus faecalis*  
*Enterococcus faecalis* Multiple Drug Resistant  
*Enterococcus faecalis* (Gentamicin Resistant)  
*Enterococcus faecalis* (Streptomycin Sensitive)  
*Enterococcus faecalis* (Vancomycin Resistant) (VRE)  
*Enterococcus faecalis* (Ciprofloxacin Sensitive)  
*Enterococcus faecalis* (Penicillin G Sensitive)  
*Enterococcus faecalis* (Tetracycline Sensitive)  
*Enterococcus faecium* (Vancomycin Resistant) (VRE)  
*Escherichia coli*  
*Escherichia coli* Antibiotic Resistant  
*Escherichia coli* (Ampicillin Resistant)  
*Escherichia coli* (Cephalothin Resistant)  
*Escherichia coli* (Ciprofloxacin Resistant)  
*Escherichia coli* (Gentamicin Resistant)  
*Escherichia coli* (Meclocillin Resistant)  
*Escherichia coli* (Ticarcillin Resistant)  
*Escherichia coli* (Tobramycin Resistant)  
*Escherichia coli* (Trimeth-Sulfa Resistant)  
*Escherichia coli* (Oxacillin Resistant)  
*Escherichia coli* (Cefotaxime Sensitive)  
*Escherichia coli* (Cefotetan Sensitive)  
*Escherichia coli* (Ceftiozime Sensitive)  
*Escherichia coli* 0157:H7  
*Klebsiella pneumoniae*  
*Klebsiella pneumoniae* Antibiotic Resistant  
*Klebsiella pneumoniae* (Ampicillin Resistant)  
*Klebsiella pneumoniae* (Cefotaxime-Intermediate Resistant)  
*Klebsiella pneumoniae* (Ceftiozime-Intermediate Resistant)  
*Klebsiella pneumoniae* (Cephalothin Resistant)  
*Klebsiella pneumoniae* (Ciprofloxacin Resistant)

Canine Distemper Virus  
 Herpesvirus Type 1  
 Herpesvirus Type 2  
 HIV-1 (AIDS virus)

*Aspergillus niger*

#### Disinfection/Virucidal Directions:

Apply use solution to hard inanimate, non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications use a coarse spray device. Spray 6-8 inches from surface, rub with brush, sponge or cloth. Do not breath spray mist.

Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

#### Disinfection/Virucidal directions:

Add 1/2 ounce per gallon (4 milliliters per liter) of water to disinfect hard, non-porous surfaces. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or when use dilution becomes diluted or soiled.

*Klebsiella pneumoniae* (Gentamicin Resistant)  
*Klebsiella pneumoniae* (Meclocillin Resistant)  
*Klebsiella pneumoniae* (Ticarcillin Resistant)  
*Klebsiella pneumoniae* (Tobramycin Resistant)  
*Klebsiella pneumoniae* (Oxacillin Resistant)  
*Klebsiella pneumoniae* (Cefotetan Sensitive)  
*Klebsiella pneumoniae* (Trimeth-sulfa Sensitive)  
*Listeria monocytogenes*  
*Proteus vulgaris*  
*Pseudomonas aeruginosa*  
*Salmonella choleraesuis*  
*Salmonella schottmuelleri*  
*Salmonella typhi*  
*Salmonella typhimurium*  
*Serratia marcescens*  
*Shigella dysenteriae*  
*Shigella flexneri*  
*Shigella sonnei*  
*Staphylococcus aureus*  
*Staphylococcus aureus* Multiple Drug Resistant  
*Staphylococcus aureus* (Ampicillin Resistant)  
*Staphylococcus aureus* (Cefotaxime Resistant)  
*Staphylococcus aureus* (Cephalothin Resistant)  
*Staphylococcus aureus* (Ciprofloxacin Sensitive)  
*Staphylococcus aureus* (Clindamycin Resistant)  
*Staphylococcus aureus* (Erythromycin Resistant)  
*Staphylococcus aureus* (Methicillin Resistant) (MRSA)  
*Staphylococcus aureus* (Oxacillin Resistant)  
*Staphylococcus aureus* (Penicillin G Resistant)  
*Staphylococcus aureus* (Tetracycline-Intermediate Resistant)  
*Staphylococcus aureus* (Trimeth/Sulfa Sensitive)  
*Staphylococcus aureus* (Vancomycin Sensitive)  
*Staphylococcus epidermidis*  
*Streptococcus pyogenes*  
 Influenza A/PR Virus  
 Infectious Bovine Rhinotracheitis  
 Pseudorabies Virus  
 Vaccinia Virus

**ACCEPTED**

Under the Federal Insecticide, Fungicide, and  
 Rodenticide Act as amended, for the  
 pesticide, registered under  
 EPA Reg. No. 10334-108

#### Mold and Mildew. Control Directions:

Add 1/2 ounce per gallon (4 milliliters per liter) of water to control the growth of mold and mildew and their odors on hard, non-porous surfaces. Thoroughly wet all treated surfaces completely. Let air dry. Repeat application weekly or when growth or odor reappear.

#### Sanitizing Non-Food Contact Surface Directions:

Add 1/2 ounce per gallon (4 milliliters per liter) of water to sanitize hard non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Allow to air dry

This product is not for use to disinfect or clean eating utensils, glassware and dishes.

#### Citrus Canker Control

For prevention of Citrus Canker Disease through treatment of equipment. Effective against *Xanthomonas axonopodis* pv. *citri* (Citrus Canker) at 2000 ppm active quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:108 (2000 ppm active quat). Treatment can be applied to outer clothing, shoes, trucks, attached trailers, field harvesting equipment; including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2000 ppm quat. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing should be either thoroughly rinsed or laundered before reuse. Footwear should be rinsed before reuse.

**\* KILLS HIV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

**"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS."**

**PERSONAL PROTECTION:** Clean-up should always be done wearing protective latex gloves, gowns, masks and eye protection.

**CLEANING PROCEDURE:** Blood and other body fluids containing HIV-1 must be thoroughly cleaned from surfaces and objects before application of MAQUAT 265 MN.

**CONTACT TIME:** Leave surface wet for 10 minutes with 1/2 ounce per gallon (4 milliliters per liter) use solution.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.



**Non-Acid Toilet Bowl Disinfection/Cleaner Directions:**

Remove gross filth prior to disinfection.

**From concentrate:**

Add 1/2 ounce (4 milliliters per liter) to the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim, allow to stand for 10 minutes and flush.

**From use solution:**

Empty toilet bowl or urinal and apply 1/2 ounce per gallon (4 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**For heavy duty use:**

Empty toilet bowl or urinal and apply 2 ounces per gallon (16 milliliters per liter) use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer, brush or swab thoroughly and allow to stand for 10 minutes and flush.

**Cleaning/Deodorizing Directions:**

Add 0.25 - 1 ounce per gallon (2-8 milliliters per liter) of water to clean and deodorize windows, mirrors and glass surfaces.

**Use a coarse spray device.** Spray 6-8 inches from surface, rub with sponge or cloth. Do not breath spray mist.

**POULTRY (AND SWINE) PREMISE SANITATION****SITE PREPARATION**

The first step in any on-going sanitation program should be the removal of gross contamination and debris. This may be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly clean all surfaces with soap or detergent and rinse with water.

**CLEANING AND DISINFECTION**

For all general cleaning and disinfection use 1/2 ounce of MAQUAT 265 MN per gallon of water. Apply MAQUAT 265 MN using a cloth, mop, or pressure sprayer as to thoroughly wet surface to be disinfected. Allow to remain wet for 10 minutes and then let air dry. For heavily soiled areas, a pre-cleaning with soap or detergent is a fresh solution after each use.

**APPLICATIONS AND USE DILUTION****POULTRY (and SWINE) PREMISE**

Remove all animals and feeds from premises, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 1/2 ounce of MAQUAT 265 MN per gallon of water. Saturate surfaces with the recommended disinfecting solution for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure.

**HATCHERIES:** Use 1/2 ounce of MAQUAT 265 MN per gallon of water to treat the following hard non-porous surfaces: hatches, setters, trays, racks, carts, sexing

tables, delivery areas and other hard surfaces. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more. Rinse with potable water before reuse. Then allow to air dry.

**VEHICLES:** Clean all vehicles including mats, crates, cabs, and wheels with high pressure water and MAQUAT 265 MN. Use 1/2 ounce per gallon to treat all vehicles. Leave all treated surfaces exposed to disinfectant solution wet for 10 minutes or more.

**SHOE BATH SANTIZER:** Shoe baths containing one inch of freshly made solution should be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a 1/2 ounce of MAQUAT 265 MN per gallon (4 milliliters per liter) of water solution for 60 seconds prior to entering area. Change the disinfectant solution in the bath daily or sooner if solution appears dirty.

**DRESSING PLANT USE:** Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Cover or remove all food and packaging materials. Remove all gross soils. Saturate all surfaces with the recommended use solution, 1/2 ounce of MAQUAT 265 MN per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

**SANITIZING HATCHERY ROOMS USING FOGGING DEVICES**

Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Close room off so fog is confined to room to be treated. Mix one part MAQUAT 265 MN to five parts water (1/2 MAQUAT 265 MN to 2.5 gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

**SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES**

Mix 6 ounces of MAQUAT 265 MN to 122 ounces of water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatch. Do not allow people to contact or breath this fog and do not enter until the fog has settled (30-60 minutes after fogging is completed). It is acceptable to fog setters and hatchers with a 1/2 ounce per gallon solution of MAQUAT 265 MN on an hourly or every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**NOTE:** The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within two hours of the actual fogging. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

**FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.**

**ACCEPTED**  
AM 1-2-0001

MAQUAT 265 MN is a disinfectant, registered under  
Pesticide Act as amended, for the  
EPA Reg. No. 10324-108



**Veterinary Practice/Animal Care Animal Laboratory/ Pet Shop/Kennels**  
**Disinfection Directions:** For cleaning and disinfecting the following hard non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors. Walls and surfaces occupied or transversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solutions of 1/2 ounce of MAQUA 256 MN per gallon of water (or equivalent dilution) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed set or dried.

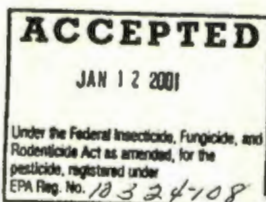
**Farm Premise Use:**

Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or transversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use solution of 1/2 ounce of MAQUAT 256 MN per gallon of water (or equivalent dilution) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, managers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

**Ultrasonic Bath Disinfectant Directions:**

Use MAQUAT 256 MN to disinfectant hard non-porous noncritical objects compatible with Ultrasonic cleaning units.

Pour fresh solution at 1/2 ounce of MAQUAT 256 MN per gallon of water (1:256) directly into bath chamber. Preclean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufactures directions. Remove objects and wash with sterile water (sterile water for injection) or allow to air dry. Prepare fresh solution for each use.



(L)

5/5

A

B



Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

August 7, 2001

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (AMEND)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Noble:

With this cover, Preserve International submits additional label directions for use for our currently registered product, Synergize.

Enclosed please find a copy of the following:

EPA stamped GKN-O Concentrate Microbiocide, EPA Registration Number 59894-4, which contains Glutaraldehyde and Quaternary Ammonia as the active ingredients. Please note the highlighted use directions.

EPA stamped Maquat 256 MN, EPA Registration Number 10324-108, please note the highlighted use directions.

EPA stamped Maquat MC1416-FB, EPA Registration Number 10324-97, please note the highlighted use directions.

EPA stamped Ucarcide 142, EPA Registration Number 10352-32, which contains Glutaraldehyde and Quaternary Ammonia as the active ingredients. Please note the highlighted use directions.

In addition, please find a KEY label for which we have written the EPA Registration number and an alphabetical letter above the requested claim. The EPA Number and the alphabetical letter correspond to a direction that is on an EPA Stamped Label.

Included are 6 (six) copies of the proposed label.

Any questions, please feel free to contact me.

Sincerely,  
Preserve International

A handwritten signature in black ink, appearing to read 'Gary E. Gaumer', is written over the typed name.

Gary E. Gaumer  
President







Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☒ Amendment  
☐ Other

OPP Identifier Number

275719

### Application for Pesticide - Section I

1. Company/Product Number 66171-7	2. EPA Product Manager Velma Noble	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Synergize	PM# 32 31	
5. Name and Address of Applicant (Include ZIP Code) Preserve International PO Box 3135 Turlock, CA 95381 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
Additional use directions

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Gary E. Gaumer		Title President		Telephone No. (Include Area Code) 580-879-9220	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.					
2. Signature 		3. Title President		6. Date Application Received (Stamped)	
4. Typed Name Gary E. Gaumer		5. Date August 7, 2001			





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

275719

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name	Title	Telephone No. (Include Area Code)
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature	3. Title	
4. Typed Name	5. Date	



## PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

**PAPERWORK REDUCTION ACT NOTICE:** Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

**INSTRUCTIONS:** This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling** - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

**Submission of Data** - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

**Block A - Check the appropriate action for which you are submitting this form.**

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III (Packaging and Container Information)** - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV (Contact Point)** - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

275719  
275719

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name		Title	
		Telephone No. (Include Area Code)	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received  (Stamped)
2. Signature		3. Title	
4. Typed Name		5. Date	



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1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling** - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

**Submission of Data** - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

**Block A** - Check the appropriate action for which you are submitting this form.

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III** (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





United States  
Environmental Protection Agency  
Office of Pesticide Programs (7505C)  
Washington, DC 20460

252334

## Notice of Supplemental Distribution of a Registered Pesticide Product

## Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product

66171-7 5

Distributor Company Number

717835

Note: Do not submit distributor product labels

Name of Registered Product (basic product name accepted by EPA)

Synergize

Distributor Product Name

AgPro Synergize

Name and Address of Distributor (Type; include ZIP code)

YS, Inc. (AgPro)  
4531 County Road 458  
Collinsville, AL 35961

## Read All Conditions Before Signing

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

## Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

President

Date

4-5-01

## Registrant

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

Gary Gaumer, Pres. et.

Date

4-5-01



**FQPA**

Reviewer ID

Submission No.

Data Package No.

T. Lantz  
5600774

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 312

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes ☐ (N) No

|15| Child-resistant Packaging

☐ (C) Certification

☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

Due Date:

10/22/01

|35| Date on Application:

0 7 1 / 1 0 1  
MO DAY YR

|04| EPA Received Date:

0 7 2 / 4 0 1  
MO DAY YR

|40| Date Received by PM

0 7 2 / 6 0 1  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE

|115| FINAL Response  
ACTION Code 17

|120| Response

SEP 12 2001

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes

☐ (N) No

MO DAY YR

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 12 2001

Preserve International  
315 Wall Street, Suite 1  
Chico, CA 95928

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: July 11, 2001  
EPA Received Date: July 24, 2000

The amendment referred to above, submitted in connection with registration under FIFRA as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

The revised label language in PR Notice 2001-1 is to be used unless the statements are medically incorrect for your product. You have not provided a justification to indicate that the statements are medically incorrect. Thus revise the First Aid statements to agree with the PR Notice as follows:

A. Revise the "If In Eyes" statement to conclude with "...call a poison control center or doctor for treatment advice." deleting the word "further".

B. Revise the "If On Skin or Clothing" statement to conclude with "...call a poison control center or doctor for treatment advice." deleting the word "further".

C. Revise the "If Inhaled" statement to begin with the statement: "Move person to fresh air."

D. Revise the "If Swallowed" statement to begin with the statement: "Call a poison control center or doctor *immediately* for treatment advice..."

SYMBOL	7510C						
SURNAME	J. L. Lutz						
DATE	9/10/01						

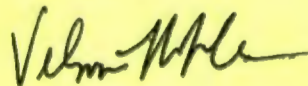


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

2. Submit two ( 2 ) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure: Stamped Label  
7510C:T.Lantz:9/10/01:66171-7e

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labelling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Laver, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to precleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce SYNERGIZE per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce SYNERGIZE per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

**PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by  
PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Laver, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A T C C 6538  
Salmonella choleraesuis A T C C 10708

Pseudomonas aeruginosa A T C C 15442  
Aspergillus fumigatus A T C C 36607

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride . . . 26.00%  
Glutaraldehyde . . . 7.00%

## INERT INGREDIENTS

TOTAL . . . 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-EP A Letter Dated:

EPA Establishment No.: 66171-TN-001

66171-CA-001 SEP 12 2001

Patent Number: 5,891,922

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as

pesticide,  
registered under EPA Reg. No. 66171-7

NFPA HAZARD CLASSIFICATION				
HEALTH	FIRE	REACTIVITY	SPECIFIC HAZARD	None
3	1	1		

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles, and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from floors, surfaces, and from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256) Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes; remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye; call a poison control center or doctor for further treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing; rinse skin immediately with plenty of water for 15-20 minutes; call a poison control center or doctor for further treatment advice.

**IF INHALED:** If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible; call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor for further treatment advice; have person sip a glass of water if able to swallow; do not induce vomiting unless told to do so by the poison control center or doctor; do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1 (800) 255-3924 for emergency medical treatment information. For information on this pesticide (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1 (800) 858-7378.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons Batch No. 144



last stamped



Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

July 11, 2001

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (PRN)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

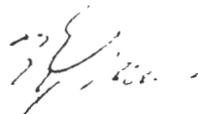
Re: Synergize, EPA Reg. No. 66171-7

Dear Ms. Noble:

With this cover, Preserve International submits six (6) copies of our Synergize and Synergize NF (Synergize NF is an alternate brand name) labels reflecting the revised Statement of Practical Treatment section as per PR Notice 2001-1.

Any questions, please feel free to contact me.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President



Reviewer ID

Tracy

Submission No.

S597542

Data Package No.

D275101

FQPA

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 362

Chemistry

10 Descriptor (Amend/Resubmissions only)

5 Intrastate Call-in ☐ (Y) Yes

15 Child-resistant Packaging

☐ (C) Certification

☐ (N) No

☐ (S) Service Person

20 Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

☐ (R) Non-residential Use Only

25 Proposed Classification: 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

☐ (N) Not-Applicable

35 Date on Application:

04 EPA Received Date:

40 Date Received by PM

015111011  
MO DAY YR

015117011  
MO DAY YR

015211011  
MO DAY YR

80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

DATE SENT

DUE DATE

DATE RETURNED

RESPONSE CODE

RESPONSE DATE

CH

EF

PL

DEB

NDEB

TB

EEB

EFGB

AUG 01 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

AUG - 1 2001

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: May 11, 2001  
EPA Received Date: May 17, 2001

This is to acknowledge receipt of your amendment submitted in conjunction with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) to submit an alternate formulation. This amendment is acceptable subject to the comments listed below.

The Confidential Statement of Formula (CSF) for an Alternate Formulation dated 5/11/2001 has been reviewed and been found to be acceptable with the following comments.

1. Each alternate formulation submitted to the Agency must have an identifier. This formula has been identified by the Agency as Alternate Formula #2. Make the same correction to the CSF in your files.

2. As was previously mentioned in the Agency letter of 6/26/00 each CSF submitted for this product must list the correct EPA Reg. No. for this product. The Agency has revised this CSF to list EPA Reg. No. 66171-7. Make this same correct to the CSF in your files.

3. Submit a corrected CSF to be included in the Agency's records for this file. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

*Velma Noble*

Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

7510C:T.Lantz:7/30/01:66171-7d		CONCURRENCES					
SYMBOL							
SURNAME	<i>S. Lantz</i>						
DATE	<i>7/31/01</i>						

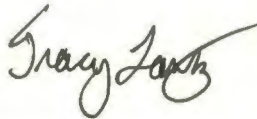


## NOTE TO THE JACKET

66171-7

7/31/01

On this date I spoke with Karen Hicks regarding the fact the review of the CSF by Alex had not noted that the Reg. # on the CSF was wrong and that there was nothing to identify this alternate formula from the other alternates which had been approved for this product. Karen said that the CSF should be accepted with these comments (correct Reg. # and identify alternate) as well as ask the registrant to submit a corrected CSF for our files.



Tracy Lantz  
Team 31

66171-7n1

**FQPA.**

DP BARCODE: D275101

CASE: 063339  
SUBMISSION: S597542

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 05/23/01  
Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION ACTION: 362 FQPA-TECH FORM CHG AMEND  
CHEMICALS: 043901 Glutaral

7.0000%

ID#: 066171-00007 SYNERGIZE  
COMPANY: 066171 PRESERVE INTERNATIONAL  
PRODUCT MANAGER: 31 VELMA NOBLE 703-308-6233 ROOM: CS1 6W18  
PM TEAM REVIEWER: TRACY LANTZ 703-308-6415 ROOM: CS1 6W5  
RECEIVED DATE: 05/17/01 DUE OUT DATE: 08/15/01

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 275101 EXPEDITE: N DATE SENT: 05/23/01 DATE RET.: / /  
CHEMICAL: 043901 Glutaral  
DP TYPE: 001

	CSF: Y	LABEL: Y	
ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 07/07/01
DIV : AD	5/24/01	/ /	NEGOT DATE: 7/15/01
BRAN: PSB	5/24/01	/ /	PROJ DATE: 7/11/01
SECT: CTT	5/24/01	/ /	
REVR : <i>Alex</i>	5/24/01	/ /	
CONTR:	/ /	/ /	

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Registrant is amending CSF to remove fragrances as an alternate formulation.

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SUBJECT: Product Chemistry Review of **Synergize**

DP Barcode: **D275101**  
Manufacturing-use [ ]

Reg. No. or File Symbol: **66171-7**  
End-use Product [X]

Active Ingredient Composition:

Alkyl(C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7% C<sub>18</sub> 1%) dimethyl  
benzyl ammonium chloride.....26.0%  
Glutaraldehyde.....7.0%

TO: Velma Noble PM31

FROM: Alex Traska, Chemist  
Product Science Branch, CT Team  
Antimicrobials Division (7510C)

*AT* 7/12/01

THRU: Karen P. Hicks, CT Team Leader  
Product Science Branch  
Antimicrobials Division (7510C)

*K.P. Hicks*  
7/18/01

THRU: Michele E. Wingfield, Chief  
Product Science Branch  
Antimicrobials Division (7510 C)

BACKGROUND:

This application for amended registration, for the subject cleaner-disinfectant, was submitted by the registrant, Preserve International.

The registrant, in this amendment, has requested approval to remove fragrances from the Alternate CSF. More specifically, the fragrance ingredients

requested to be deleted from the alternate formula include [REDACTED] .

The following documents were submitted and examined in the chemistry review of this submission: registrant's cover letter dated May 11, 2001, application for amended registration dated May 11, 2001, revised Alternate CSF dated 5/11/01, current Alternate CSF dated 7/12/00 and product label dated December 11, 2000.

#### FINDINGS:

1. The requirements of PR Notice 91-2 were satisfied. The nominal concentration of the active ingredients given in the Alternate Formulation CSF agree with the percentages declared on the label.
2. The upper and lower certified limits for both the active and inert ingredients are acceptable.
3. All ingredients utilized in the revised formula are cleared for use in pesticide formulations.
4. All other elements of the CSF were acceptable.

#### RECOMMENDATIONS:

This amendment, requesting the removal of fragrance materials from the Alternate CSF, is accepted.

7/12/01 AT





Office of Gary E. Gaumer 315 Wall Street, Suite 1, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • email: gegaumer@shocking.com

May 11, 2001

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (AMEND)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Dear Ms. Noble:

Preserve International submits this package at this time as an alternate formula amendment for our product Synergize, EPA Registration Number 66171-7.

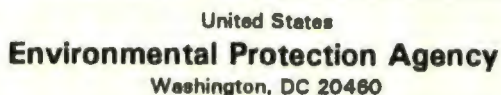
If I may be of further assistance, please feel free to contact me at 530-879-9220.

Thank you for your time and consideration.

Sincerely,  
Preserve International



Gary E. Gaumer  
President

Registration  
Amendment  
Other**OPP Identifier Number**

277385

### Application for Pesticide - Section I

1. Company/Product Number  66171-7	2. EPA Product Manager Velma Noble	3. Proposed Classification  <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)  Synergize	PM#  31	
5. Name and Address of Applicant (Include ZIP Code) Preserve International PO Box 3135 Turlock, CA 95381  <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

## Section - II

<input checked="" type="checkbox"/>	Amendment - Explain below.	<input type="checkbox"/>	Final printed labels in response to Agency letter dated _____
<input type="checkbox"/>	Resubmission in response to Agency letter dated _____	<input type="checkbox"/>	"Me Too" Application.
<input type="checkbox"/>	Notification - Explain below.	<input type="checkbox"/>	Other - Explain below.


**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

### Ammending the CSF to remove the perfumes

### Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	
* Certification must be submitted		If "Yes" Unit Packaging wgt.		If "Yes" Package wgt	
		No. per container		No. per container	
2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> _____	
6. Manner in Which Label Is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point <i>(Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</i>		
Name Gary E. Gaumer	Title President	Telephone No. (Include Area Code) 530-879-9220
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Gary E. Gaumer	5. Date May 11, 2001	





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

277385

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name		Title	
		Telephone No. (Include Area Code)	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature		3. Title	
4. Typed Name		5. Date	



## PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

**PAPERWORK REDUCTION ACT NOTICE:** Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

**INSTRUCTIONS:** This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling** - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

**Submission of Data** - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

**Block A** - Check the appropriate action for which you are submitting this form.

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III** (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

277385

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name		Title	
		Telephone No. (Include Area Code)	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature		3. Title	
4. Typed Name		5. Date	



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**Block A** - Check the appropriate action for which you are submitting this form.

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III** (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





United States  
Environmental Protection Agency  
Office of Pesticide Programs (7505C)  
Washington, DC 20460

251114  
21863

# Notice of Supplemental Distribution of a Registered Pesticide Product

## Instructions

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product

66171-7 5

Distributor Company Number

5 71783

Note: Do not submit distributor product labels

Name of Registered Product (basic product name accepted by EPA)

Synergize

Distributor Product Name

AgPro Synergize

Name and Address of Distributor (Type; include ZIP code)

YS, Inc. (AgPro)  
4531 County Road 458  
Collinsville, AL 35961

## Read All Conditions Before Signing

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

## Distributor

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

*Paul J. Gauer*

President

Date

4-5-01

## Registrant

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

*Gary Gauer, President*

Date

4-5-01

**FQPA**

Reviewer ID

Submission No.

Data Package No.

Tracy5581656D267096

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

FQPA

File Symbol/Reg. No. 66171-7 PM 31Action Code 307

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes☐ (N) No

|15| Child-resistant Packaging

☐ (C) Certification☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional☐ (2) Unconditional☐ (R) Non-residential Use Only☐ (N) Not-Applicable

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted☐ (R) Restricted☐ (G) General☐ (N) Not Classified

|35| Date on Application:

016 | 112 | 010  
MO DAY YR

|04| EPA Received Date:

016 | 116 | 010  
MO DAY YR

|40| Date Received by PM

016 | 219 | 010  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All☐ (6) Owner Submission☐ (4) Not Applicable☐ (7) Total Submission☐ (5) Not Submitted☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENTDUE  
DATEDATE  
RETURNEDRESPONSE  
CODERESPONSE  
DATE|115| FINAL Response  
ACTION Code 18

|120| Response

DEC 11 2000

MO DAY YR

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes☐ (N) No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

DEC 11 2000

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: June 12, 2000  
EPA Received Date: June 16, 2000

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

A. As was previously stated in the Notice of Registration for this product dated 4/24/00, in the directions for swine producing facilities revise statement #3 exactly as follows: "Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals." deleting the phrase which proceeded this statement "**Remove when possible**".

B. As was previously stated in the Notice of Registration for this product, revise statement #9 of the swine producing facilities directions to read as follows: "Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers, *and equipment which may come in contact with food* with soap or detergent, and rinse with potable water before reuse."

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. L. [Signature]						
DATE	12/7/00						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

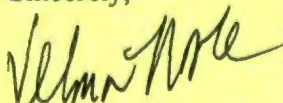
C. Revise the directions for #3 in the farm premise, equine facilities, veal barns, ratites facilities, calf pens, and vehicles to include "...caked on dirt, spider webs, etc. *from floors, surfaces, and from walls to ceilings...*"

3. Submit two ( 2 ) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6 ( e ). Your release for shipment of this product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure: Stamped Label

7510C:T.Lantz:12/7/00:66171-7c

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labelling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

Pseudomonas aeruginosa A.T.C.C. 15442  
Aspergillus fumigatus A.T.C.C. 36607

## ACTIVE INGREDIENTS

Alkyl (C <sub>12</sub> 67%, C <sub>14</sub> 25%, C <sub>16</sub> 7%, C <sub>18</sub> 1%) dimethyl benzyl ammonium chloride	26.00%
Glutaraldehyde	7.00%
INERT INGREDIENTS	67.00%
TOTAL	100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

ACCEPTED  
WITH COMMENTS

EPA Registration No.: 66171-7  
EPA Establishment No.: 66171-TN-001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide,

Manufactured by  
PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles, and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA

**pi PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448



DP BARCODE: D267096

**FQPA**

CASE: 063339  
SUBMISSION: S581656

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 06/29/00  
Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION ACTION: 307 FQPA TECH-LBL REV AMD DAT  
CHEMICALS: 043901 Glutaral

7.0000%

ID#: 066171-00007 SYNERGIZE  
COMPANY: 066171 PRESERVE INTERNATIONAL  
PRODUCT MANAGER: 31 VELMA NOBLE 703-308-6233 ROOM: CS1 6W18  
PM TEAM REVIEWER: TRACY LANTZ 703-308-6415 ROOM: CS1 6W5  
RECEIVED DATE: 06/16/00 DUE OUT DATE: 12/13/00

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 267096 EXPEDITE: N DATE SENT: 06/29/00 DATE RET.: / /  
CHEMICAL: 043901 Glutaral  
DP TYPE: 001

	CSF: Y		LABEL: Y	
ASSIGNED TO		DATE IN	DATE OUT	ADMIN DUE DATE: 10/17/00
DIV : AD		6/29/00	/ /	NEGOT DATE: 11/13/00
BRAN: PSB		7/5/00	/ /	PROJ DATE: 10/29/00
SECT: EET		7/5/00	/ /	
REVR : Jan		/ /	/ /	
CONTR:		/ /	/ /	

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Registrant has submitted efficacy data to support the  
addition of Aspergillus fumigatus MRID #45147101

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

November 28, 2000

**MEMORANDUM:**

**Subject:** Product Efficacy Review for EPA Reg. No.: 66171-7 / Synergize  
DP Barcode: D267096  
Case No: 063339

**To:** Velma Noble, PM 31 / Tracy Lantz  
Regulatory Management Branch  
Antimicrobials Division (7510C)

**From:** Ian D. Blackwell, M.S., Biologist  
Efficacy Evaluation Team  
Product Science Branch  
Antimicrobials Division (7510C)

*Ian Blackwell*

**Through:** Emily Mitchell, Acting Team Leader  
Efficacy Evaluation Team  
Product Science Branch  
Antimicrobials Division (7510C)

*Emily Mitchell 11/30/00*

Michele E. Wingfield, Chief  
Product Science Branch  
Antimicrobials Division (7510C)

**Applicant:** Preserve International

**FORMULATION FROM LABEL:**

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Alkyl dimethyl benzyl ammonium chloride	26
Glutaraldehyde	7
<u>Other Ingredient(s):</u>	<u>67</u>
Total: .....	100%

**BACKGROUND:** Preserve International has submitted a product efficacy study to support the claims of antimicrobial efficacy of their product "Synergize" against *Aspergillus fumigatus* (ATCC 36607). This study was conducted by Presque Isle Cultures. The MRID Number is 451471-01.

**RECOMMENDATIONS:** PSB findings are:

MRID Number 451471-01: "AOAC Fungicidal Product Test" by Richard A. Gammon, Ph.D., Presque Isle Cultures. Lab Project Number: Preserve Int: 97-3. Study Completion Date 4/24/97

This study was conducted "Synergize" diluted 1:256 in 1000 ppm CaCO<sub>3</sub> AOAC Hard Water using the AOAC Fungicidal Product Test against *Aspergillus fumigatus* (ATCC 36607) in the presence of 5% blood serum with a 10-minute exposure. The results demonstrate that Synergize was able to disinfect cultures of *Aspergillus fumigatus* (ATCC 36607) under the conditions of this study.

**LABELING:**

No comments.



Form Approved OMB No. 2070-0060



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

**Certification with Respect to Citation of Data**

Applicant's/Registrant's Name, Address, and Telephone Number Preserve International, PO Box 3135, Turlock, CA 95381	EPA Registration Number/File Symbol 88171-7
Active Ingredient(s) and/or representative test compound(s) Glutaraldehyde / Alkyl (C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium chloride	Date December 7, 2000
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Indoor non-food, Indoor food	Product Name Synergize

**NOTE:** If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

**SECTION I: METHOD OF DATA SUPPORT (Check one method only)**

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

**SECTION II: GENERAL OFFER TO PAY**

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

**SECTION III: CERTIFICATION**

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date 12/7/00	Typed or Printed Name and Title Gary E. Gaumer, President
---------------	-----------------	--



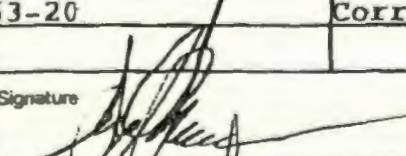


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WASHINGTON, D.C. 20460

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## DATA MATRIX

Date <u>December 6, 2000</u>		EPA Reg No./File Symbol <u>66171-T</u>		Page <u>1</u> of <u>2</u>	
Applicant's/Registrant's Name & Address <u>Preserve International</u> <u>PO Box 3135, Turlock, CA 95380</u>		Product <u>Synergize</u>			
Ingredient <u>Glutaraldehyde, Alkyl(C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium Chloride</u>					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Prod identity and compensation	44433701	Preserve International	own	
61-2	Des. of beg. materials & Proces	44433701	Preserve International	own	
61-3	Disc. of formation of impur.	44433701	Preserve International	own	
62-1	Preliminary analysis of product	44433703/4	Preserve International	own	
62-2	Certification of ingredient	44433703/4	Preserve International	own	
62-3	Analytical method	44433703/4	Preserve International	own	
63-2	Color	44433701	Preserve International	own	
63-3	Physical State	44433701	Preserve International	own	
63-4	Odor	44433701	Preserve International	own	
63-7	Bulk density	44433702	Preserve International	own	
63-8	Solubility	44433701	Preserve International	own	
63-12	pH	44433702	Preserve International	own	
63-18	Viscosity	44433702	Preserve International	own	
63-20	Corrosion Characteristics	44433701	Preserve International	own	
Signature 		Name and Title <u>GARY GRAUER</u> <u>President</u>		Date <u>2/8/00</u>	

EPA Form 8570-55 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

12/6/00 ✓





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401 M Street, S.W.  
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DATA MATRIX

Date		December 7, 2000		EPA Reg No./File Symbol	66171-T	Page	2 of 2
Applicant's/Registrant's Name & Address		Preserve International PO Box 3135, Turlock, CA 95380		Product Synergize			
Ingredient Allyl (C12, 67%, C14, 25%, C16, 7%, C18, 1%) dimethyl benzyl ammonium chloride, Glutaraldehyde							
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note		
81-1	A Acute oral LD 50	44569501	Preserve International	OWN			
81-2	Acute Dermal LD 50	44569502	Preserve International	OWN			
81-3	Acute Inhalation	44569505	Preserve International	OWN			
81-4	Primary Eye Irritation	44569504	Preserve International	OWN			
81-5	Primary dermal irritation	44569503	Preserve International	OWN			
81-6	Dermal Sensitization	44569506	Preserve International	OWN			
91-2	AOAC Use Dilution - P. aeruginosa	44433705/6	Preserve International	OWN			
91-2	AOAC Use Dilution - S. aureus	44433705/6	Preserve International	OWN			
91-2	AOAC Use Dilution - S. choleraesuis	44433705/6	Preserve International	OWN			
91-2	Aspergillus fumigatus	45147101	Preserve International	OWN			
Signature				Name and Title		Date	
				Gary Gaudin, President		8/25/95	

12/4/00 2/8/05





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

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## DATA MATRIX

Date <u>December 6, 2000</u>		EPA Reg No./File Symbol <u>66171-T</u>		Page <u>1</u> of <u>2</u>	
Applicant's/Registrant's Name & Address <u>Preserve International</u> <u>PO Box 3135, Turlock, CA 95880</u>		Product <u>Synergize</u>			
Ingredient <u>Glutaraldehyde, Alkyl(C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium Chloride</u>					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Preserve International	own	
			1 Preserve International	own	
			Preserve International	own	
			4 Preserve International	own	
			4 Preserve International	own	
			4 Preserve International	own	
			Preserve International	own	
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			Preserve International	own	
			Preserve International	own	
			Preserve International	own	
			Preserve International	own	
			Preserve International	own	
			Preserve International	own	
Signature		Name and Title <u>Gary Gauron</u> <u>President</u>		Date <u>2/8/00</u>	

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Agency Internal Use Copy

12/6/00







Office of Gary E. Gaumer 336 Broadway, Suite 18, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • Email: GEGaumer@Shocking.com

June 12, 2000

451471-00

Mr. Dennis Edwards  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Dear Ms. Noble:

451471/01

Please find three copies of efficacy data to support the addition of *Aspergillus fumigatus* to Synergize, EPA Registration Number 66171-7. In addition, please find five copies of the proposed label reflecting this addition.

If I may be of further assistance, please feel free to contact me at 530-879-9220.

Thank you for your time and consideration.

Sincerely,  
Preserve International

Gary E. Gaumer  
President



**FQPA**

Reviewer ID

Submission No.

Data Package No.

Tracy  
5582995  
D267685

**FQPA**

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PM 31

Action Code 362

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes ☐ (N) No

|15| Child-resistant Packaging ☐ (C) Certification

☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional ☐ (2) Unconditional

☐ (R) Non-residential Use Only

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted ☐ (R) Restricted

☐ (G) General ☐ (N) Not Classified

☐ (N) Not-Applicable

|35| Date on Application:

|04| EPA Received Date:

|40| Date Received by PM

10 | 7 | 12 | 0 | 10 |  
MO DAY YR

10 | 7 | 18 | 0 | 10 |  
MO DAY YR

10 | 7 | 26 | 0 | 10 |  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All ☐ (6) Owner Submission

☐ (4) Not Applicable ☐ (7) Total Submission

☐ (5) Not Submitted ☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE

|115| FINAL Response  
ACTION Code 17

|125| Response

OCT 05 2000

MO DAY YR

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes

☐ (N) No

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

OCT 05 2000

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

ATTENTION: Gary Gaumer

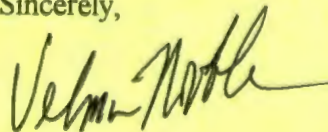
SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Amendment Dated: July, 12, 2000  
EPA Received Date: July 18, 2000

This is to acknowledge receipt of your amendment submitted in conjunction with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) to submit an alternate formulation. This amendment is acceptable.

The Confidential Statement of Formula (CSF) for the Alternate Formulations dated 7/12/2000 have been reviewed and been found to be acceptable. This CSF will be made part of the record for this file.

Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

7510C:T.Lantz:10/4/00:66171-7b

CONCURRENCES

SYMBOL	7510C						
SURNAME	T.Lantz						
DATE	10/4/00						



DP BARCODE: D267685

**FQPA**

CASE: 063339  
SUBMISSION: S582995

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 07/26/00  
Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION ACTION: 362 FQPA-TECH FORM CHG AMEND  
CHEMICALS: 043901 Glutaral

7.0000%

ID#: 066171-00007 SYNERGIZE  
COMPANY: 066171 PRESERVE INTERNATIONAL  
PRODUCT MANAGER: 31 VELMA NOBLE 703-308-6233 ROOM: CS1 6W18  
PM TEAM REVIEWER: TRACY LANTZ 703-308-6415 ROOM: CS1 6W5  
RECEIVED DATE: 07/18/00 DUE OUT DATE: 10/16/00

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 267685 EXPEDITE: N DATE SENT: 07/26/00 DATE RET.: / /  
CHEMICAL: 043901 Glutaral  
DP TYPE: 001

	CSF: Y	LABEL: Y	
ASSIGNED TO	DATE IN	DATE OUT	ADMIN DUE DATE: 09/09/00
DIV : AD	7/26/00	/ /	NEGOT DATE: 9/16/00
BRAN: PSB	7/27/00	/ /	PROJ DATE: 9/2/00
SECT: CTT	7/27/00	/ /	
REVR : <i>aly</i>	7/27/00	/ /	
CONTR:	/ /	/ /	

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Registrant has submitted a CSF for a minor formulation change

\* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

\* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SUBJECT: Product Chemistry Review of **Synergize**

DP Barcode: **D267685**  
Manufacturing-use [ ]

Reg. No. or File Symbol: **66171-7**  
End-use Product [X]

Active Ingredient Composition:

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%)

dimethyl benzyl ammonium chloride.....26.0%

Glutaraldehyde.....7.0%

TO: Velma Noble PM31

FROM: Alex Traska, Chemist *At 9/6/00*  
Product Science Branch, CT Team  
Antimicrobials Division (7510C)

THRU: Karen P. Hicks, CT Team Leader  
Product Science Branch  
Antimicrobials Division (7510C) *KPH 9/7/00*

THRU: Michele E. Wingfield, Chief  
Product Science Branch  
Antimicrobials Division (7510 C)

BACKGROUND:

This application for amended registration, for the subject cleaner-disinfectant, was submitted by the registrant, Preserve International.



The registrant, in this submission, is responding to the June 28, 2000 Agency letter. An amended registration has been filed to properly introduce and identify an inert ingredient change in the Alternate Formulation CSF dated 7/12/00. More specifically, [REDACTED] in this alternate formulation.

The following documents were submitted and examined in the chemistry review of this submission: registrant's cover letter dated July 12, 2000, application for amended registration dated July 12, 2000, Alternate Formulation CSF dated 7/12/00 and product label dated April 24, 2000. Also examined for this review was jacket file # 66717-7.

#### FINDINGS:

1. The requirements of PR Notice 91-2 were satisfied. The nominal concentration of the active ingredients given in the Alternate Formulation CSF agreed with the percentages declared on the label.
2. Upper and lower certified limits for both the active and inert ingredients were acceptable.
3. The new inert ingredient, [REDACTED], is cleared for use in pesticide formulations.
4. All other elements of the CSF were acceptable.

#### RECOMMENDATIONS:

This application, for amended product registration of the Alternate Formulation for **Synergize**, is accepted.

9/6/00 AT



**World Headquarters** 2524 Industrial Rowe, Turlock, CA 95380 • Bus: (209) 664-1607 • Fax: (209) 664-1728 • USA: (800) 995-1607  
**Tennessee Operation** 1213 Empire Avenue, Memphis, TN 38107 • Bus: (901) 272-0031 • Fax: (901) 726-6446

July 12, 2000

Ms. Velma Noble  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency (AMEND)  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Dear Ms. Noble:

In response to your June 28, 2000 letter, please find the enclosed Application for Amendment and Confidential Statement of Formula for Synergize. EPA Registration Number 66171-7.

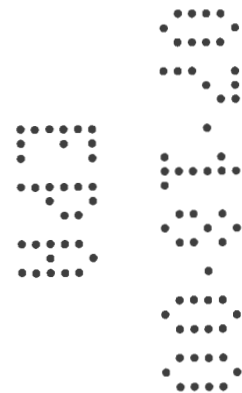
Preserve International submits this package at this time in effort to register a "minor formulation change" via an expedited review process as per PR Notice 98-10 Section V (3).

If I may be of further assistance, please feel free to contact me at 530-879-9220.

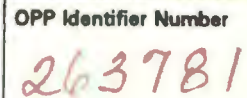
Thank you for your time and consideration.

Sincerely,  
Preserve International

Gary E. Gaumer  
President











United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

263781

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name		Title		Telephone No. (Include Area Code)	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature		3. Title			
4. Typed Name		5. Date			



## PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

**PAPERWORK REDUCTION ACT NOTICE:** Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

**INSTRUCTIONS:** This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

1. Certification with Respect to Citation of Data (EPA Form 8570-29). (If not exempted by 40 CFR 152.81 (b) (4));
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling** - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

**Submission of Data** - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.  
**Block A** - Check the appropriate action for which you are submitting this form.

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

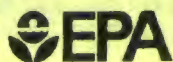
**SECTION III** (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☐ Other

OPP Identifier Number

2263781

## Application for Pesticide - Section I

1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name)	PM#	
5. Name and Address of Applicant (Include ZIP Code)  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must submitted If "Yes" Unit Packaging wgt.      No. per container      If "Yes" Package wgt.      No. per container					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name		Title		Telephone No. (Include Area Code)	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature		3. Title			
4. Typed Name		5. Date			



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2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

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2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.



SEP 1 2000

Mr. Gary E. Gaumer  
Preserve International  
336 Broadway  
Suite 18  
Chico, CA 95928

Dear Mr. Gaumer:

This is in response to your letter of June 12, 2000 regarding your desire to add fogging directions to your product S;ynnergize, EPA Reg. No. 66171-7. You have provided copies of antimicrobial products that contain fogging directions for our review.

We have reviewed the labels provided to show that there are registered antimicrobial products that contain fogging directions. We have never disputed the fact that there are registered products that contain directions for thermal fogging. However, there are no registered products which contain gluteraldehyde with fogging directions.

We have received over the last several years a number of incident reports for gluteraldehyde. It is well documented that gluteraldehyde can cause severe eye and skin irritation and can be very irritating via the inhalation route of exposure. Thermal fogging can expose one to residues that can cause irritation. In order for us to approve thermal fogging directions for your product, you will need to provide exposure data.

The exposure data you need to develop is outlined in our Subdivision U guidelines. You may retrieve this information from the internet site [www.epa.gov/docs/OPPTS\\_Harmonized\\_875\\_Occupational\\_and\\_Residential\\_Exposure\\_Test\\_Guidelines/](http://www.epa.gov/docs/OPPTS_Harmonized_875_Occupational_and_Residential_Exposure_Test_Guidelines/).

I realize that you have proposed a re-entry interval for your product that you believe would preclude any one from entering the treated area while the pesticide may be present in the air. However, we need exposure data to substantiate and verify that the re-entry interval you are proposing is indeed adequate.



Before conducting any study, you should first develop a protocol using the guideline reference described above as a reference. You may want to submit that protocol for our review, prior to generating any data to ensure that your study will provide the information necessary to support thermal fogging directions.

If you have any questions regarding this letter please do not hesitate to contact me at (703 308-8087).

Sincerely,

DHE

Dennis H. Edwards, Jr., Chief  
Regulatory Management Branch 1  
Antimicrobials Division (7510C)



Office of Gary E. Gaumer 336 Broadway, Suite 18, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • Email: GEGaumer@Shocking.com

June 12, 2000

Mr. Dennis Edwards  
Office of Pesticides Programs (7504C)  
United States Environmental Protection Agency  
Ariel Rios Building  
1200 Pennsylvania Avenue, N.W.  
Washington, DC 20460

Dear Mr. Edwards:

After our telephone conversation, I took your advice and contacted Mr. Winston Dang regarding our desire to add a fogging claim to our product Synergize, USEPA Registration Number 66171-7. Mr. Dang suggested that we compile an application and submit it to you for your review.

Included please find copies of the following labels:

Tek-Trol  
Bio-Phene Liquid Disinfectant  
Bio Sentry 904  
Bioguard 903  
Oxine  
Sani-Squad



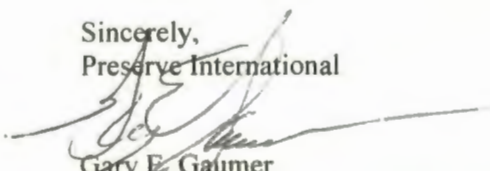
We submit these labels in an effort to demonstrate to the EPA that there are many different products that are currently registered with the EPA for use in fogging machines.

When we originally submitted Synergize, we had asked for fogging directions to be included on our label. We were denied based on the fact that "the agency was unable to establish that there are any similar products on the market that have been approved for Thermal fogging". As we agreed in our telephone conversation, this might be true, but not relevant. We feel that they are not relevant because the re-entry periods preclude any person from entering the room while fog is present; therefore there is no exposure to the employee. Please review our label and notice that we have established re-entry periods that are identical to Tek-Trol which are the highest of the group.

If the concern is that there are not products registered that are similar to Synergize, I would draw your attention to the BioSentry 904, Bioguard 903, Oxine, and Sani-Squad labels. To my knowledge, there has not been any fogging toxicology data generated for the following active ingredients found in these: bis-n-tributyltin oxide, chlorine dioxide, or formaldehyde.

We ask that you approve our request to add fogging direction to the Synergize label. We thank you for your time and consideration and await your response.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President

**"The Solution Is Preserve"**



## DESCRIPTION

TEK-TROL is a synthetic detergent with broad spectrum kill of gram positive and gram negative microorganisms. Provides effective cleaning and disinfecting in one operation. Non flammable and non volatile in use. Solutions excellent solubility. Dilutes hot cold soft or hard water of up to 1000 ppm water hardness.

The TEK-TROL high foaming detergent system has been especially formulated to provide heavy-duty cleaning, wetting and penetration of soils and organic matter and easy rinsing of surfaces. Excellent clinging foam is obtained at 1/2 oz. per gallon of water (1:256) to provide prolonged contact time.

TEK-TROL at 1/2 oz. per gallon of water (1:256) provides residual control of odor causing bacteria in the presence of moisture.

TEK-TROL is recommended for use when used as directed on ceramic and glazed tile surfaces, stainless steel, aluminum, chrome, galvanized metal, glass and other non-porous surfaces such as treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), polystyrene, vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic, polyurethane.

TEK-TROL at 1/2 oz. per gallon of water (1:256) is ideally suited for disinfecting and cleaning in all areas of Veterinary Facilities, Kennels and in poultry and turkey barns, Breeder and Laying Operations, Poultry House Grow-out Operations, Hatcheries, in hatching and setters, evaporative coolers, humidifying systems and ceiling fans, live haul equipment, chick buses, transfer trucks, trays, coop washing, polyethylene chick boxes, foot pans and feed bins. Equine facilities including stables, stalls, breeding and foaling areas and transport vehicles.

TEK-TROL is recommended for use in fogging (wet misting) operations as an adjunct either preceding or following regular cleaning and disinfecting procedures. Use at a dilution of 1/2 ounce per gallon (1:256). Check with a Bio-Tek representative to determine effective fogging schedule for particular use sites. Leave the room when fogging. In well ventilated areas, such as hatcheries, only 10 to 15 minutes is necessary before reentering. If used in a poorly ventilated area, allow at least 2 hours, or air thoroughly, before reentry. Before fogging in food processing areas, all food and food packaging items must be removed or carefully protected. Treated food contact surfaces must be thoroughly scrubbed with TEK-TROL at 1/2 oz. per gallon (1:256) and rinsed with potable water prior to reuse.

Toxicity tests required by the U.S. Environmental Protection Agency for TEK-TROL DISINFECTANT CLEANER have been done, in conformity with the FDA and EPA Good Laboratory Practice Regulations.

Proven effective as a disinfectant by the following tests: A.O.A.C. (use dilution test method) in conformance with the 14th Edition 1984. All dilutions at (1:256). The following organisms tested at 1000 ppm water hardness as calcium carbonate and 10% horse serum (as organic soil):

*Staphylococcus aureus* ATCC #6538  
*Streptococcus pyogenes* ATCC #9342  
*Shigella sonnei* ATCC #25931  
*Klebsiella pneumoniae* ATCC #4352  
*Enterobacter aerogenes* ATCC #13048  
*Proteus vulgaris* ATCC #13315  
*Pseudomonas aeruginosa* ATCC #15442  
*Mycobacterium bovis* (BCG) A.O.A.C.  
Tuberculoicidal Test  
*Trichophyton mentagrophytes*  
ATCC #9533 A.O.A.C. Fungicidal Test  
*Pasteurella multocida* ATCC #6529  
(fowl Cholera)  
*Pasteurella anatis* ATCC #19615  
*Beta streptococcus*, ATCC #19615  
*Mycoplasma synoviae*  
*Rhodococcus equi*, ATCC #6939  
*Salmonella choleraesuis*,  
Kunzendorf Strain  
*Typhlorella equigenitalis* (C.E.M.) Kentucky  
Strain #3056

*Salmonella enteritidis*, ATCC #13076  
*Aspergillus fumigatus* ATCC #6285  
*Salmonella choleraesuis* ATCC #10708  
*Salmonella schottmuelleri* ATCC #8749  
*Salmonella pullorum* ATCC #19945  
*Salmonella gallinarum* ATCC #9184  
*Salmonella typhimurium* ATCC #13311  
*Salmonella arizonae* #7:1,7,8  
*Salmonella arizonae* PD 36  
*Escherichia coli* ATCC #11229  
*Alcaligenes faecalis* Strain #838  
*Alcaligenes faecalis* Georgia Strain  
*Staphylococcus epidermidis*  
*Enterococci* Group D Species  
*Mycoplasma gallisepticum*  
*Staphylococcus hyicus*  
*Streptococcus equi*, ATCC #39506  
*Streptococcus suis*, Type II  
*Streptococcus pyogenes*, ATCC #19615  
*Haemophilus parvus* ATCC #19417  
*Mycoplasma hyopneumoniae* ATCC #25934

+ The following Viruses tested in accordance with U.S. Environmental Protection Agency Pesticide Assessment Guidelines on inanimate environment surfaces. Tested at 1000 ppm water hardness as calcium carbonate and 10% serum (as organic soil):

—Herpes Simplex Type 1  
—Avian infectious bronchitis virus  
—Transmissible gastroenteritis virus  
Purdue Strains, ATCC #VR-763  
—Canine parvovirus, Strain CPV MLV  
(Cornell)  
—Parainfluenza virus, Type 1,  
Sandel Strain ATCC #VR 105  
—Avian reovirus  
—Porcine rotavirus, ATCC #VR-893  
—Avian rotavirus, AVR-1  
—Duck enteritis virus (D.V.E.)  
—Avian Laryngotracheitis  
—Newcastle disease virus

Hard surface Mildewicidal Test Method. CSMA method 23 at 1000 ppm water hardness as calcium carbonate and 10% serum (as organic soil):

*Aspergillus niger* ATCC #6275  
(black mold)  
*Penicillium variable* NRRL #3765  
(green mold)



## DISINFECTANT - CLEANER CONCENTRATE

STAPHYLOCIDAL • PSEUDOMONACIDAL • SALMONELLACIDAL  
ASPERGILLOCIDAL • TUBERCULOCIDAL • VIRUCIDAL +  
FUNGICIDAL • MILDEWICIDAL • DEODORANT

ACTIVE INGREDIENTS	ortho-Phenylphenol	12.0%
	ortho-Benzyl-para-chlorophenol	10.0%
	para-tertiary-Amylphenol	4.0%
INERT INGREDIENTS		74.0%
	TOTAL	100.0%
EPA REG. NO. 11725-7		EPA EST. NO. 11725-GA-1

## KEEP OUT OF REACH OF CHILDREN DANGER

### PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

**Danger. Corrosive.** Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. May be harmful or fatal if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

#### Statement of Practical Treatment

**IF ON SKIN** — Wash with plenty of soap and water. Get medical attention.

**IF IN EYES** — Hold eyelids open and flush eyes with plenty of water. Get medical attention.

**IF SWALLOWED** — Call a physician immediately. Drink large quantities of water. Never give anything by mouth to an unconscious person. Avoid Alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

#### • CONDUCTIVE •

TEK-TROL has been tested by Hood Patterson-Dewar, Electrical Testing Engineers, for its effect on conductive flooring. The method used conforms to the specifications known as NFPA Standard No. 56A, published by the National Fire Protection Association, Second Edition 1987. TEK-TROL meets the requirement of NFPA 56A.

Manufactured by



BIO-TEK INDUSTRIES, Inc.

1330 West Marietta St., N.W. Atlanta, GA 30318, USA  
Telephone (404) 999-2050  
Fax (404) 999-2058

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### HATCHING EGG SANITIZER.

TEK-TROL is recommended for use as a Hatching Egg Sanitizer with best results being achieved in water temperatures ranging from 78°F to 110°F. The recommended dilution is 1/2 oz. per gallon of water (1:256) and may be applied through automatic washing systems, immersion tanks, foaming apparatus, low pressure sprayers, and fogging (wet misting) systems.

### GENERAL USE DIRECTIONS:

1. To clean, disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, and garbage cans. Remove gross filth and heavy soil with a preliminary cleaning step prior to application of TEK-TROL. Apply solution of 1/2 oz. of TEK-TROL per gallon water (1:256) with a sponge, mop, mechanical spray device or foaming apparatus making sure that all surfaces are wetted thoroughly. Allow surface to remain wet for 10 minutes. Air dry.
2. To clean and disinfect such articles as combs, brushes, razors, scissors, instruments and rubber goods. All instruments and devices must be thoroughly cleaned to remove excess debris, rinsed and rough dried, including the hollows and lumens, before immersion in solutions. Soak for 10 minutes in a solution containing 1/2 oz. TEK-TROL per gallon of water (1:256).
3. To disinfect fabrics such as sheets, linens, aprons and uniforms. First rinse to remove gross filth or heavy soil, then soak for 10 minutes in a solution containing 1/2 oz. of TEK-TROL per gallon of water (1:256).
4. To clean gross filth or heavy soil on surfaces prior to disinfection, use 1/2 oz. of TEK-TROL per gallon of water (1:256).

TEK-TROL is an effective tuberculocide against *Mycobacterium bovis* in 10 minutes at 20°C, when used on hard, non-porous man-made surfaces. Follow above directions, including removal of gross filth or heavy soil prior to application of TEK-TROL.

### DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, SWINE-PRODUCING FACILITIES, EQUINE FACILITIES, AND VEAL BARNES.

Do not use in milking stalls, milking parlors, or milk houses.

1. Remove all animals and feed from the premises.
2. Remove all trucks, coops, crates, water troughs and feed racks.
3. Remove all gross soil, litter, manure, droppings from animals and poultry from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals and poultry.
4. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. of TEK-TROL per gallon of water (1:256). Use high pressure sprayer or apply layer of foam with BIO-TEK foaming apparatus.
5. Allow to remain in contact for at least 10 minutes.
6. Immerse halters, ropes and other types of equipment used in handling and restraining animals, forks, shovels, scrapers used for removing litter and manure, in a solution of TEK-TROL at 1/2 oz. per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers, and mangers with a solution of TEK-TROL at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

### STORAGE AND DISPOSAL

**Pesticide Disposal** — Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Do not contaminate water, food, or feed by storage or disposal.

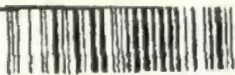
**Container Disposal** — Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

TEK-TROL is a registered trademark of Bio-Tek Industries, Inc.

NET CONTENTS

U.S. GALLONS





904 55 GL

(See back panel for additional precautionary statements.)

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

\*See back panel for specific claims  
BACTERICIDE, FUNGICIDE, VIRUCIDE\*

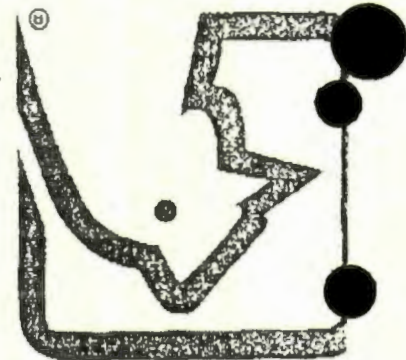
**ACTIVE INGREDIENTS:**  
Didecyl dimethyl ammonium chloride 9.2%  
Alkyl (C<sub>12</sub>, 61%; C<sub>14</sub>, 23%; C<sub>16</sub>, 11%; C<sub>18</sub>, 2.5%; C<sub>20</sub>, 2.5%)  
C<sub>12</sub> & C<sub>14</sub> dimethyl benzyl ammonium chloride 9.2%  
Alkyl (C<sub>12</sub>, 40%; C<sub>14</sub>, 50%; C<sub>16</sub>, 10%)  
dimethyl benzyl ammonium chloride 4.6%  
bis-n-butyltin oxide 1.0%  
**INERT INGREDIENTS:** 79.0%

For chicken, turkey, duck, quail, ostrich and other avian hatcheries  
EFFECTIVE IN 400 PPM HARD WATER AS (CaCO<sub>3</sub>)  
DISINFECTS IN 5% ORGANIC SOIL LOAD

POULTRY HATCHERY DISINFECTANT

**BioSentry**  
904

**Disinfectant-Residual Bacteriostat\***



is a complete, chemically balanced disinfectant providing clear use solutions even in hard water. It is a residual bacteriostat and inhibits bacterial growth on moist surfaces. It stains rust and corrosion inhibitors. It sanitizes by killing most microorganisms that cause offensive odors.

#### DIRECTIONS FOR USE

is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**FOR DISINFECTING PRECLEANED SURFACES:** Use 904 to disinfect pre-cleaned surfaces including hatcheries, setters, racks, egg flats, floors, ceilings and other areas in the hatchery environment. It is also excellent for chick boxes, egg cases, bins and trash containers. Clean the surface to be disinfected with 453™ or another compatible BioSentry hatchery cleaner. Rinse and if possible let surfaces dry. Then, apply 904 at 1/2 ounce per gallon by immersion, by flowing solution over treated surfaces, by use of a soft coarse ray, or with a clean mop, cloth or through a foaming apparatus. Thoroughly wet surfaces. Surfaces should remain moist for 10 minutes for complete disinfection. Do not use. Leave treatment on treated surfaces to maintain a bacteriostatic effect on moist surfaces. NOTE: Do not spray 904 disinfecting solutions unless workers are protected from breathing the spray mist.

**SANITIZING HATCHERY ROOMS USING THE BIOSENTRY™ FOGGER 185 OR AGMISTER:** Close room off so fog is confined to room to be treated. Mix one (1) part 904 five (5) parts water. (1/2 gallon 904 to 2.5 gallons water). Insert the nozzle of the fogger through a suitable opening into the room. With the setting on maximum output, fog for one (1) minute for each 4,000 cubic feet of space in the room with the BioSentry fogger 185. If using the agMister, fog for 9 minutes for each 4,000 cubic feet of space in a room. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Normally this is 1-4 hours in this environment.

**NOTE:** The fog generated by the BioSentry™ Fogger 185 and the agMister is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room building be entered by anyone until the fog has completely settled, normally 1-4 hours after the actual fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH, goggles, long shirt sleeves and pants.

**SANITIZING INCUBATORS AND HATCHERS BY FOGGING:** Prepare a stock solution of 8 ounces 904 to 122 ounces water. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatchery treatments approximately 24 hours prior to pulling the hatch. Do not allow people to contact or breathe the fog and do not enter machines until the fog has settled (30-60 minutes after fogging is completed). To do this, install permanent fogging nozzles in setters and hatchers and use an air compressor to disperse the sanitizing solution as a fog. Contact your BioSentry Technical Representative if you need assistance.

is also satisfactory to fog setters and hatchers with a 1/2 ounce per gallon solution of 904. If this is done, fog for 30-90 seconds once per hour or once every two hours. Contact your BioSentry Technical Representative for assistance.

**DISINFECTING CHICK VANS, EGG TRUCKS, HATCHERY AND FARM VEHICLES:**

904 should not be mixed with other cleaning or disinfecting compounds or products.

**BROAD SPECTRUM GERMICIDAL ACTION IN HARD WATER AND UNDER SOIL LOAD CONDITIONS:** At 1/2 ounce per gallon (1:256) in official AOAC Use Dilution and Fungi Tests, 904 is effective in water up to 400 ppm hardness (as CaCO<sub>3</sub>) and an organic soil 5% serum against the following organisms:

#### BACTERIA

*Pseudomonas aeruginosa* ATCC 15442  
*Salmonella choleraesuis* ATCC 10708  
*Enterobacter aerogenes* ATCC 63905  
*Pasteurella multocida* ATCC 7707  
*Shigella dysenteriae* ATCC 13313  
*Klebsiella pneumoniae* ATCC 4352  
*Enterococcus faecium* ATCC 6583  
*Salmonella gallinarum* ATCC 9184  
*Serratia marcescens* ATCC 204  
*Bordetella avium* ATCC 35086  
*Streptococcus agalactiae* ATCC 27916 (*Streptococcus faecalis*)

*Staphylococcus aureus* ATCC 6001  
*Salmonella enteritidis* ATCC 4924  
*Streptococcus pyogenes* ATCC 19615  
*Salmonella typhimurium* ATCC 9120  
*Escherichia coli* ATCC 11229  
*Alcaligenes faecalis* ATCC 6748  
*Shigella sonnei* ATCC 29920  
*Salmonella typhosa* ATCC 6539  
*Proteus morganii* ATCC 25830  
*Proteus mirabilis* ATCC 25633

#### FUNGI

*Aspergillus fumigatus* ATCC 10594  
*Trichophyton mentagrophytes* var. *interdigitale* ATCC 9533

*Candida albicans* ATCC 10261

#### VIRUSES

Using accepted virus propagation and hard surface test methods, BioSentry 904 is effective at 1:256 in hard water and 5% serum against the following viruses and Mycoplasma sp.  
*Avian erythrotracheitis* ATCC VR-763  
*Mycoplasma gallisepticum* ATCC 15302  
*Infectious bronchitis* ATCC VR-22  
*Transmissible gastroenteritis* ATCC VR-763  
*Infectious bursal disease* ATCC VR-478

*Mycoplasma* (nere) ATCC 15705  
*Newcastle's disease* ATCC VR-11  
*Perinfectious* ATCC VR-261  
*Pseudorabies* ATCC VR-135  
*Canine parvovirus* VR-953

**STORAGE AND DISPOSAL:** Store only in tightly closed original container in a secure area inaccessible to children. Do not contaminate water, food or feed by storage and disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or residue is a violation of Federal Law. Wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. Plastic Containers: Triple rinse. Then offer for recycling or reconditioning or puncture and in a sanitary landfill or incineration or, if allowed by state and local authorities, by burning. If burned, smother.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**

**CORROSIVE:** Causes severe eye and skin damage. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling.  
**PHYSICAL AND CHEMICAL HAZARDS:** Do not use or store near heat or open flame.  
**STATEMENT OF PRACTICAL TREATMENT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing before reuse.

PRESERVE INTL.

BRUCE 404 418 2227



# DRUGS & DISINFECTANTS

## SANI-SQUAD®



SANI-SQUAD - Multipurpose Disinfectant  
Catalog No. 7126 - 4/ gal in plastic bottles  
Catalog No. 7127 - 5 gal drums  
Catalog No. 7128 - 55 gal drums

### General Description:

Sani-Squad is a combination disinfectant. It contains formaldehyde, two quaternaries, and a phenolic, all of which are individually usable as disinfectants. In combination and at recommended dilution levels, each component chemical is active and effective. When combined, you not only get the individual compound effect but also a synergistic action that makes the combination more effective than any of its individual components.

Sani-Squad when used as directed will destroy the following organisms at 1:100 solution: *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*.

When one part of Sani-Squad is diluted with 100 parts of water it will provide a use level solution containing 0.25 % formaldehyde, 200 ppm quaternary, and 250 ppm of its phenolic agent.

Sani-Squad is very active in the presence of organic matter because of its formaldehyde content. It also has good residual bacteriostatic effect because of its quaternary and phenolic content. Its pleasant odor comes from its phenolic.

### Active Ingredients:

Thymol	2.58 %
Methyldodecylbenzyl Trimethyl Ammonium Chloride	1.69 %
Methyldodecylxylene bis (Trimethyl Ammonium Chloride)	0.42 %
Formaldehyde	27.78 %
Ethyl Alcohol	14.68 %
Methyl Alcohol	9.03 %
Isopropyl Alcohol	1.20 %
Inert Ingredient	42.62 %

### Directions for Use:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Use Sani-Squad dilution as recommended in the Dilution chart on product label for purpose intended.

Remove all animals, poultry and feeds from premises, cars, boats, trucks, coops and crates. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by all poultry and animals. Empty all troughs, racks, and other feeding and watering appliances. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry, livestock or employ equipment until treatment has been absorbed, set or dried. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be thoroughly scrubbed with detergents and rinsed with potable water prior to reuse. Saturate surfaces with recommended solution.

### 1. General Disinfection:

Disinfecting hog houses, farrowing houses, feeders and other equipment; horse stables and sick pens, race tracks or sale barns, hospital pens, calf pens and equipment.

Disinfecting houses used for poultry, turkeys, ducks and game birds and for equipment used in brooding, growing and laying quarters.

Disinfecting trucks, crates, scales and other equipment used in the moving of chickens, turkeys, hogs, cattle, sheep and horses.

Disinfecting dog and cat kennels as well as laboratory animal facilities, at veterinary hospitals, research laboratories and medical institutions.

Spraying cattle pens, chutes, loading equipment, trucks and animal manure pits for the control of odor and ammonia.

### 2. Litter and Concrete Sanitation:

Sani-Squad produces a sizable drop in bacterial count when contaminated soil is exposed to a 1:50 dilution, and thus can be used in the sanitization of concrete near or in animal quarters prior to placement of litter and for the sanitary removal of litter and soil.

### 3. Viruses:

Sani-Squad at a 1:100 of dilution will destroy Newcastle disease, Bronchitis, Laryngotracheitis, Fowl Pox and Avian Encephalomyelitis viruses within 30 minutes when used as directed. To destroy the avian viruses named, Sani-Squad should be used at the 1:100 dilution or less. The virus infected material must be exposed to this dilution for a minimum of 30 minutes. Sufficient volumes of this dilution must be used to insure extended contact.

Sani-Squad has been found to destroy fowl leukosis virus (Marek's Disease) when tested at a dilution of 1:50 and exposed for 10 minutes and 1:100 exposed for 20 minutes as well as the Gumboro disease agent (IBA) at a dilution of 1:100 exposed for 30 minutes and Infectious Bovine Rhinotracheitis virus (IBR) at a 1:100 dilution for 30 minutes in laboratory experiments. The significance of these results in the use of Sani-Squad as directed in the environmental sanitation program has not been established.



# SANI-SQUAD® [CONTINUED]

## 4. Dressing Plant Use:

Use Sani-Squad at 1:100 dilution to sanitize equipment, utensils, walls and floors in poultry and animal dressing plants. Equipment and utensils must be thoroughly rinsed with potable water before operations are resumed. Use Sani-Squad at 1:50 dilution to sanitize offal rooms, exterior walls and loading platforms of dressing plants.

## 5. Farm Hatching Egg Treatment:

The contaminants on hatching egg shells have proven to be a stubborn problem for both chick and poult producers. Sani-Squad can be used for egg dipping to sanitize the egg shell by immersing freshly laid hatching eggs in a 1:100 dilution of Sani-Squad for 1 minute and then allowing eggs to air dry before delivery to the hatchery in baskets, plastic or cardboard flats and egg cases which were fumigated or disinfected. Care must be taken to insure that the dip solution containing Sani-Squad is warmer than the hatching eggs to prevent the infusion of the disinfectant into the eggs. Warm tap water (120° to 130° F) is ideal for making warm solutions of Sani-Squad for egg dipping, sanitizing or cleaning.

## For Hatchery Use:

Sani-Squad at a 1:300 or 1:200 dilution should be used in the hatchery for washing down trays, floors, racks, utensils and equipment for the incubation and hatching of eggs. During cleanups between hatches, incubators and hatchers should be fogged down or sprayed at 1:100 dilution after all foreign matter has been removed. Fogging before cleanup of equipment and after a cleanup is an adjunct to manual disinfecting procedures and greatly reduces the possibility of spread of disease. Sani-Squad at 1:100 or 1:200 dilution is especially adapted for use through the Vineland Mister which disperses the dilute product as a fine fog. During the hatching, Sani-Squad at 1:100 can be fogged at wide open setting into hatcher units for periods of 3 to 5 minutes. This is an adjunct to acceptable manual disinfecting procedures of environmental surfaces and will help to provide sanitary areas for the ready to hatch eggs.

When mortality after hatching from omphalitis occurs, use Sani-Squad at 1:100 dilution for the succeeding hatches until the problem disappears, then reduce the Sani-Squad concentration to 1:200, then to 1:300 to hold problem in check. Check bacterial count in both incubators and hatchers periodically both before and after disinfection to determine effectiveness.

## DANGER: POISON

Read label directions and precautionary statements on product label before use. Note hazards to humans and domestic animals. Note physical and chemical hazards.

## STORAGE AND DISPOSAL:

Do not reuse container. Wash thoroughly with water and detergent. Discard in safe place. Do not use, pour, spill or store near heat or open flame. Keep out of reach of children.

# DRUGS

## VITAPOL™ WITH ELECTROLYTES



## VITAPOL with ELECTROLYTES:

Catalog No. 2412 - 25 lbs (50.8 oz)

Catalog No. 2411 - 25 lbs (125.4 oz)

## General Description:

Soluble vitamin, electrolyte, mineral mixture for poultry, swine, calves, cattle and sheep. Highly concentrated for addition to drinking water as an aid in preventing vitamin and mineral deficiencies when birds and animals are off feed. Can be used as a general vitamin/mineral supplement.

## Ingredients:

Each 8 ounces contains: Vitamin A, 1,280,000 I.U.; Vitamin B12 Activity, 2,560 micrograms; Vitamin D3, 1,000,000 I.U.; d-Calcium Pantothenate, 3,200 mg; Menadione Sodium Bisulfite (Synthetic Vitamin K), 500 mg; Niacin, 6,720 mg; Riboflavin, 1,280 mg; Vitamin E, 800 I.U.; Folic Acid, 150 mg; Choline Bitartrate, 5,760 mg; and Electrolytes and minerals 100 g. (Contains: The electrolytes: Sodium, Potassium, Calcium, Magnesium occurring as chlorides, lactate, carbonate and sulfate and the trace minerals: Cobalt, Zinc, Manganese, Copper and Iron.) also contains dextrose and fumed silica.

## Directions for Use:

To aid in the prevention of vitamin and mineral deficiencies during off-feed periods, feed Vitapol in the drinking water for five days or until normal feed consumption is resumed. For continuous low level supplementation of the normal diet follow package directions. Prepare fresh solutions daily. The 8 oz packet, for use through a proportioner as directed, will treat 128 gallons of water at high level or 384 gallons of water at low level.

The 3.2 oz (90.5 g) packet, used as directed, will treat 50 gallons of water at high level or 150 gallons of water at low level.

## Cautions:

Keep out of reach of children. For animal and poultry use only. Store at room temperature.





**Disinfectant-  
Cleaner**

# BioSentry®

BIO-PHENE™ LIQUID  
DISINFECTANT

---

PROVEN EFFECTIVE AS A ONE-STEP CLEANER-  
DISINFECTANT IN THE PRESENCE OF 5% ORGANIC  
SERUM FOR POULTRY, SWINE, ANIMAL CARE  
FACILITIES, LIVESTOCK AND VETERINARY USES.

**ACTIVE INGREDIENTS:**

o-Phenylphenol .....	7.92%
o-Benzyl-p-chlorophenol .....	9.97%
p-tert-Amylphenol .....	1.95%
INERT INGREDIENTS: .....	80.16%
TOTAL INGREDIENTS: .....	100.00%

DILUTION: 1 to 256 (one-half ounce per gallon)

KEEP OUT OF REACH OF CHILDREN  
**DANGER**

(See back panel for additional precautionary statements.)

MANUFACTURED BY  
BloSentry® Inc., Stone Mountain, GA 30083 USA

NET CONTENTS: \_\_\_\_\_ Gal.



**BloSentry®  
Agricultural  
Sanitation  
Systems**



### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Bio-PHene Liquid Disinfectant is a one-step germicide, fungicide, sporeicide, and disinfectant effective in the presence of organic soil. It is non-selective and, when used as directed, will not harm the bacteria, resistant flora, plants or varnished wood, and metal.

To clean and disinfect hard surfaces, use 1/2 ounce of Bio-PHene Liquid Disinfectant per gallon of water. Apply liquid with a mop, sponge, cloth or brush to thoroughly wet surfaces. Prepare fresh solutions daily or when solution becomes visibly dirty.

To clean badly soiled areas, use up to 1-1/2 ounces per gallon of water.

To control mold and mildew growth on previously cleaned, hard, nonporous surfaces, use 1/2 ounce per gallon. Allow to dry without wiping. Repeat as new growth appears.

**GENERAL FARM DISINFECTANT USES:** (1/2 ounce per gallon) (a) Remove all livestock and flocks from premises, trunks, cages or crates to be treated. (b) Remove all litter, bedding and manure from floors, walls and surfaces of buildings transferred or occupied by animals. (c) Empty all feeding devices and watering appliances. (d) Clean all surfaces with usual detergent and a compatible detergent. (e) Saturate all surfaces with this product diluted at 1/2 ounce per gallon of water using a brush, cloth, mop or mechanical spraying device. Small areas (floors, walls, screens) may be immersed. Treated surfaces must remain moist for at least 10 minutes for proper germicidal action. (f) Ventilate buildings, trunks, cages and other closed spaces. Do not house livestock or use equipment until treatment has thoroughly dried. (g) Thoroughly scrub (wash) bedding and use bedding equipment with detergent and rinse with potable water before reuse.

**VEAL, CALVING, HQ, CATTLE AND HORSE OPERATIONS:** Between dismountings of facilities, cleaning and disinfection of pens, harness, sleds, vehicles, equipment, animals and other environmental surfaces may be required. Flush walls from these areas and disinfect with 1/2 ounce per gallon of Bio-PHene Liquid Disinfectant. Take care to avoid spray of other contact with animals, feed or food equipment or in the water or watering devices. If spray is used on or contains feeders or waterers, avoid them and rinse well with potable water before they are reused.

**Farm Stock Bath:** Use 1 ounce per gallon in farm stock bath. Change solution daily and empty it because visibly soiled. Use a nylon bristled brush to clean walls from barns.

**SANITIZING HATCHING EGGS:** Use 1/2 ounce per gallon of Bio-PHene and apply by immersion, tumbling, low pressure spraying, flushing or wet rubbing. Water temperature from 75° F to 100° F is recommended. Use on hatching eggs only. Do not apply to eggs that are to be returned.

Bio-PHene Liquid Disinfectant is effective against Staphylococcus aureus, Pseudomonas aeruginosa, Salmonella choleraesuis, and Typhimurium enteritidis.

**SANITIZING POULTRY HOUSES AND LIVESTOCK BUILDINGS**

**BIO-PHENE THROUGH THE BIOFOG FOGGER**

After the fogger has been prepped and cleaned as in label and left under "General Farm Disinfectant Use", double check to be sure all people, poultry, livestock and pigs have vacated the building. Close all windows, doors, harness, curtains, etc., making the house as closed and tight as possible. Mix 1 part Bio-PHene with two parts water in the reservoir of the Biofog Fogger. With the setting on maximum output, fog the treatment into this room or building to be sanitized. (Use a total of 1 gallon of Bio-PHene for each 4000-6000 square feet of floor space. If the area is more than 25 feet high, use 2 gallons per 4000-6000 square feet of floor space. In multi-story buildings, the application must be repeated for each floor that is to be sanitized. The Biofog itself may be placed just inside the door of the building to be treated, or the nozzle of the Biofog may be inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle. After fogging, the building should be kept closed for twenty-four hours. After twenty-four hours, the fog should have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four to forty-eight hours before it is reoccupied with poultry or livestock.

**NOTE:** This fog generated by the Biofog is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved by NIOSH. The goggles, long sleeve gloves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent fogging, the treatment, they should be washed with detergent and water before use for poultry or livestock.

**POULTRY HATCHERES:** Bio-PHene Liquid Disinfectant is excellent for cleaning and disinfecting hatcheries, pens, cages, trays, racks, equipment, utensils and other environmental surfaces in prior hatcheries. After initial cleaning and disinfecting with Bio-PHene diluted 1/2 ounce per gallon, rinse and occupy a fresh disinfecting solution. Do not rinse again. One also cleaning and disinfecting is not recommended in hatcheries.

**For Health-Care Facilities:** At 1/2 ounce per gallon of water, Bio-PHene Liquid Disinfectant is an excellent cleaner and germicide in operating rooms, emergency rooms, patient rooms, laboratories, clinics, veterinary facilities, and animal care premises.

**Used in Aquaculture:** Action in Heat Water and Under Sea Water Conditions: At 1/2 ounce per gallon (1-25%) in official AQAC Use Disinfectant and long-term tests. Bio-PHene is effective in water up to 400 ppm hardness (as CaCO<sub>3</sub>) and an average pH level of 8.5 (within the following parameters):

**BACTERIA**

**Pseudomonas aeruginosa** ATCC 15442  
**Staphylococcus aureus** ATCC 10708  
**Enterobacter aerogenes** ATCC 6909  
**Paratyphus typhimurium** ATCC 7707  
**Shigella sonnei** ATCC 13313  
**Neisseria meningitidis** ATCC 4302  
**Escherichia coli** ATCC 4389  
**Salmonella enteritidis**  
**Shigella sonnei**

**PARASITES**

**Paratyphus typhimurium** ATCC 6838  
**Staphylococcus aureus** ATCC 4851  
**Enterobacter aerogenes** ATCC 6942  
**Candida albicans** ATCC 10804  
**Trichomonas foetus**  
**Leishmania donovani**  
**Trypanosoma brucei**  
**Neisseria meningitidis** ATCC 4302  
**Salmonella enteritidis** ATCC 6746

### PLANTS

**Aspergillus fumigatus**  
**Trichoderma reesei** var. **intelligens**  
**Xanthomonas campestris**

Using recovered virus propagation and hard surfaces test methods, Bio-PHene is effective at 1-25% in 400 ppm hard water and 8.5 percent against the following viruses and mycoplasmas:

**Pseudomonas virus**  
**Transmissible gastroenteritis virus (TGE)**  
**Newcastle's Disease Virus**  
**Pork Foot Virus**  
**Infectious Bursal Disease Virus (IBDV)**

### PRECAUTIONARY STATEMENTS HAZARD TO HUMANS & DOMESTIC ANIMALS

#### WARNING: KEEP OUT OF REACH OF CHILDREN.

Corrosive. Causes eye damage and skin irritation. May produce severe burns. Harmful or fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Wash thoroughly after handling. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, seek large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** Possible mucous membrane shock, respiratory depression and corrosion may be severe. Measures against secondary shock, respiratory depression and corrosion may be needed.

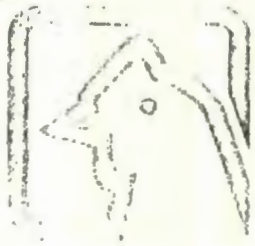
**STORAGE & DISPOSAL:** Store only in tightly closed original container in secure area inaccessible to children. Do not contaminate water, food, or feed by escape and disposal. Residue wastes are highly corrosive. Improper disposal of excess pesticide, spray mixture or other hazardous wastes may be hazardous to humans. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the nearest waste representative at the nearest EPA Regional Office for guidance.

**METAL CONTAINER:** Triple rinse. Then after for recycling or reconditioning, or purchase and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**HAZARD TO HUMANS & DOMESTIC ANIMALS:** If swallowed or absorbed through the skin, it may cause severe burns. Harmful or fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid contamination of food. Wash thoroughly after handling. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, seek large quantities of water. Avoid alcohol. Call a physician immediately.

by B.P.H. (Hatched, care-out of state).





# BIOGUARD<sup>®</sup> POULTRY PRODUCT INFORMATION

BioSentry, Inc  
1481 Rock Mountain Blvd.  
Stone Mountain, GA  
30083-9986  
404 723-9211  
1-800-766-4246  
Fax 404-934-0932

## BIOGUARD<sup>®</sup> 903<sup>™</sup>

### RESIDUAL HATCHERY DISINFECTANT

#### DESCRIPTION

BioGuard 903 is the disinfectant of choice for use in avian hatcheries. It kills bacteria, molds and viruses that cause disease or economic losses in the hatchery. Disinfects, deodorizes and leaves a residual antibacterial film to prevent growth of bacteria on surfaces that become moist.

The active germicides are quaternary ammonium compounds and tributyltin neodecanoate. Effective in hard water to 400 ppm hardness (24 grains as  $\text{CaCO}_3$ ) and in the presence of light to moderate soil loads (5% serum).

Compatible in use with BioGuard 453, EZ-Kleen, Tray Wash Compound, Liquid Tray Wash and Liquid Egg Wash 101.

#### BENEFITS

- \*Kills and inhibits the growth of gram positive and gram negative bacteria, molds and viruses.
- \*Not volatile, leaves a long lasting residual film on treated surfaces.
- \*Deodorizes by killing microbes causing odors.
- \*Contains no perfumes or odor-masking agents to cover or hide odors that might indicate a cleaning or disinfecting problem.
- \*Safe to use on surfaces not harmed by water.
- \*Use solutions do not bleach or stain skin or clothing.
- \*Contains corrosion inhibitor, alkalinity boosters, chelants and penetrants.

#### USE RATE

Disinfect pre-cleaned surfaces: 1/2 ounce per gallon (1:256)

Incubator and Hatcher Fogging: 6 ounces to 122 ounces of water  
Fog 3-8 ounces of this stock solution into setters and hatchers immediately after transfer. Thereafter, repeat this treatment daily in the setters and every 12 hours in hatchers until 12 hours before pulling hatches.

**OXINE**

Registration number: 009804- 00001

Company: BIO-CIDE INTERNATIONAL INC

722170 2845 BROCE DR  
NORMAN, OK 730708644  
USA  
Contact: JAMES RINGO  
Contact Phone: 4053295556

Status: Active

Approval date: 19671213

Cancel date:

Cancel reason:

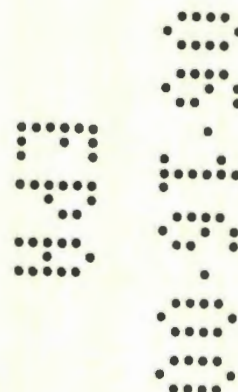
EPA Product manager: Robert Brennis -- (703)308-6264

Chemical(s):

2.0000 % of (020503)

**Chemical Names:(Common Name, Synonym, Trade Names)**

- o CAS REG. NO. 10049-04-4
- o CHLORINE DIOXIDE
- o CHLORINE OXIDE
- o CHLORINE PEROXIDE

Questions about this product's data?



# OXINE®(AH)

## Simply the Best

utilizes chlorine dioxide chemistry which is recognized as one of the most potent weapons in the **rapid elimination** of pathogens and the biofilms that protect them.

produces ultra high activity which is conclusively documented in a comparison study demonstrating OXINE®(AH)'s superiority over 10 other standard disinfectants. (*The Journal of Industrial Microbiology*, volume 4, 1980, 145-154)

may be used at relatively low concentrations due to its ultra high activity.

is not a hypochlorite and, therefore, does not chlorinate to produce toxic by-products such as THMs generated by chlorine products.

has been successfully tested and proven **extremely effective** against a broad spectrum of microorganisms. USDA studies suggest chlorine dioxide may be up to **7 times more effective** than chlorine bleach.

is very effective in the control of malodors by eliminating the odor causing bacteria or compounds at the surface.

applications are fully registered with the EPA, USDA and FDA.

### The Most Effective Biosecurity Against...

- Pseudorabies virus
- Canine Parvovirus
- Newcastle Disease virus
- Mycobacterium
- Staphylococcus
- Streptococcus
- Swine Vesicular Disease virus
- African Swine Fever virus
- Foot and Mouth Disease virus
- Salmonella
- E. coli
- Fungal Growth

### OXINE®(AH) Provides Superior Sanitation In These Applications:

- Animal Confinement Areas
- Walls, Floors, Ceilings and Drains
- Poultry Grower Houses
- Water Sprayers & Fountains
- Feed Bins
- Hard Surface Disinfection
- Breeding Kennels
- Swine Barns
- Lamowin Houses
- Calf Barns
- Animal Hospital

For A Distributor Near You:



800-323-1398



## Oxine<sup>®(AII)</sup> in the Animal Health Industry

### Page 6

#### Proper use of Oxine<sup>®(AII)</sup>

Oxine<sup>®(AII)</sup> is applied using one of three methods. Hose-end-sprayer, air mister or proportional pumping. The typical use and activation for each application method are outlined as follows:

#### Hose-end-sprayer

Fill sprayer with Oxine<sup>®(AII)</sup> and add 2.0 ounces of citric acid (1 tablespoon) per 16 fluid ounces of Oxine<sup>®(AII)</sup> and allow to set for five minutes. A yellow color should develop as an indicator that the product is being activated for use. Set adjustment on sprayer to deliver 1.0 fluid ounce of Oxine<sup>®(AII)</sup> per gallon of water (1:128) for control of bacteria, mold and fungi. Use a setting of 3.0 fluid ounces of Oxine<sup>®(AII)</sup> per gallon of water (1:42) for control of virus and spores.

#### Air Misters

In order to apply Oxine<sup>®(AII)</sup> around pipes and other difficult areas to disinfect, an air mister is an excellent tool. Also, better air quality can be obtained in confined areas by using periodic applications to the air. A concentration of 3.0 fluid ounces of Oxine<sup>®(AII)</sup> and two tablespoons of citric acid mixed and allowed to stand for five minutes can be diluted with one gallon of water and used in the misters. Another way to fill the mister is to use the hose-end-sprayer at a setting of 3.0 fluid ounces per gallon as mentioned above. This solution is then misted into the air. Compatible misters are available from Bio-Cide International, Incorporated.

#### Proportional Pumps

Some applications of Oxine<sup>®(AII)</sup> can be made using a pump to dose treat volumes of water. If this is the case for your facility it is recommended that a BCI representative be contacted to assist with the calculations and set-up. However, understanding that a typical 1:128 ratio is equivalent to 1.0 fluid ounce per gallon and a 1:42 ratio is equivalent to 3.0 fluid ounces per gallon will be very useful in setting up a proportional pump unit.

#### Other Applicators

High pressure spraying units are often used to apply chemicals in rooms previously cleaned. This method is adequate for Oxine<sup>®(AII)</sup> as long as the high pressure adjustment on the end of the wand is changed to a low pressure setting. A high pressure setting will cause the active ingredient of Oxine<sup>®(AII)</sup> to be displaced at the nozzle outlet and very little if any activity will be observed on the surface being disinfected.



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SHOE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride 26.00%  
Glutaraldehyde 7.00%

## INERT INGREDIENTS

67.00%

TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-801

Patent Number: 5,891,922

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewer treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, EQUINE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

SYNERGIZE is recommended for use in fogging (wet mist) operations as an adjunct prior to acceptable manual cleaning and disinfecting of room surfaces. Use at a dilution of 1/2 ounce to 4 ounces per gallon of water. Check with a Preserve International representative to determine an effective fogging schedule. Leave the room when fogging. In well ventilated areas, such as hatcheries, only 10-15 minutes is necessary before re-entering. If used in a poorly ventilated area, allow at least 2 hours, or air thoroughly, before re-entry.

**\*NOTE:** The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-2 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## NFPA HAZARD CLASSIFICATION

TOXIC	FIRE	REACTIVE	SPECIFIC
3	1	1	None

197

**PI PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by

PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, vilon, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride 26.00%

Glutaraldehyde 7.00%

INERT INGREDIENTS 67.00%

TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-801

Patent Number: 5,891,922

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, EQUINE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not milk in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles, and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

SYNERGIZE is recommended for use in fogging (wet mist) operations as an adjunct prior to acceptable manual cleaning and disinfecting of room surfaces. Use at a dilution of 1/2 ounce to 4 ounces per gallon of water. Check with a Preserve International representative to determine an effective fogging schedule. Leave the room when fogging. In well ventilated areas, such as hatcheries, only 10-15 minutes is necessary before re-entering. If used in a poorly ventilated area, allow at least 2 hours, or air thoroughly, before re-entry.

**\*NOTE:** The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-2 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/fogging respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## NFPA HAZARD CLASSIFICATION

TOXIC	FIRE	REACTIVE	SPECIFIC
3	1	1	None

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**PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by

PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (209) 664-1607

NET CONTENTS \_\_\_\_\_ U.S. Gallons



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>-67%, C<sub>14</sub>-25%, C<sub>16</sub>-7%, C<sub>18</sub>-1%) dimethyl benzyl ammonium chloride 26.00%

Glutaraldehyde 7.00%

INERT INGREDIENTS 67.00%

TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or waste is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-801

Patent Number: 5,891,922

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, EQUINE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not milk milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles, and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set, or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
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**\*NOTE:** The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-2 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## NFPA HAZARD CLASSIFICATION

TOXIC	FIRE	REACTIVE	SPECIFIC
3	1	1	None



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

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## USE DIRECTIONS:

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**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

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- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
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# SYNERGIZE CLEANER-DISINFECTANT

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## ACTIVE INGREDIENTS

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Glutaraldehyde 7.00%

INERT INGREDIENTS 67.00%

TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

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## CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001

Patent Number: 5,891,922

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## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, EQUINE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not milk in milking stalls, milking parlors, or milk houses
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- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

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**\*NOTE:** The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-2 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.

## PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## NFPA HAZARD CLASSIFICATION

TOXIC	FIRE	REACTIVE	SPECIFIC
3	1	1	None



## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm CaCO<sub>3</sub>) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, vilon, ethylene propylene, nitrile, acrylic and polyurethane

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and cleaning hard non-porous surfaces. Not for use on feed, food or litter.

SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean hard non-porous surfaces of walls, floors, tables, sinks, refrigerator exteriors, telephone booths and garbage cans in non-animal areas associated with the sites noted above. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) to pre-cleaned surfaces. Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

**BOOT/SOUE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape waterproof shoes or boots and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

# SYNERGIZE CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

## ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride 26.00%

Glutaraldehyde 7.00%

INERT INGREDIENTS 67.00%

TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

## PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container

## PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-7

EPA Establishment No.: 66171-TN-001

Patent Number: 5,891,922

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewer treatment authority. For guidance contact your State Water Board or Regional Office of the EPA.

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, EQUINE FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not milk in milking stalls, milking parlors, or milk houses
- 2) Remove all animals and feed from the premises, vehicles, and enclosures
- 3) Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals
- 4) Empty all troughs, racks, and other feeding and watering appliances
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact with this solution for at least 10 minutes
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry
- 3) Empty all troughs, racks, and other feeding and watering appliances
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dilute 1:256) for a period of 10 minutes
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse

SYNERGIZE is recommended for use in fogging (wet mist) operations as an adjunct prior to acceptable manual cleaning and disinfecting of room surfaces. Use at a dilution of 1/2 ounce to 4 ounces per gallon of water. Check with a Preserve International representative to determine an effective fogging schedule. Leave the room when fogging. In well ventilated areas, such as hatcheries, only 10-15 minutes is necessary before re-entering. If used in a poorly ventilated area, allow at least 2 hours, or air thoroughly, before re-entry.

**\*NOTE:** The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-2 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.

## PRECAUTIONARY STATEMENTS Hazards to humans and domestic animals

## DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. Wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## NFPA HAZARD CLASSIFICATION

TOXIC	FIRE	REACTIVE	SPECIFIC
3	1	1	None



# FQPA

Reviewer ID T. Lantz  
 Submission No. 5580811  
 Data Package No. \_\_\_\_\_

FQPA

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-7 PH 31 Action Code 332

10 Descriptor (Amend/Resubmissions only) \_\_\_\_\_

Notification

5 Intrastate Call-in ☐ (Y) Yes ☐ (N) No 15 Child-resistant Packaging ☐ (C) Certification ☐ (S) Service Person

30 days

20 Registration Type: ☐ (1) Conditional ☐ (2) Unconditional ☐ (R) Non-residential Use Only ☐ (N) Not-Applicable

25 Proposed Classification: ☐ (R) Restricted ☐ (G) General 30 Final Classification: ☐ (R) Restricted ☐ (N) Not Classified

Due Date:  
7/1/00

35 Date on Application: 015 214 010 04 EPA Received Date: 016 011 010 40 Date Received by PH: 016 113 010

80 Method of Support: ☐ (1) Cite-All ☐ (6) Owner Submission ☐ (4) Not Applicable ☐ (7) Total Submission ☐ (5) Not Submitted ☐ (8) Selective Method

Reviewers Requested:	DATE SENT	DUE DATE	DATE RETURNED	RESPONSE CODE	RESPONSE DATE
CH					
EF					
PL					
DEB					
NDEB					
TB					
EEB					
EFCB					

115 FINAL Response ACTION Code 17 125 Response : JUN 26 2000

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes ☐ (N) No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

JUN 26 2000

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA Registration Number: 66171-7  
Your Notification Dated: May 24, 2000  
EPA Received Date: June 1, 2000

This is to acknowledge receipt of your notification as per PR Notice 98-10. The alternate brand name is acceptable while the alternate formulation is unacceptable due to the reasons listed below.

The alternate brand name "Synergize NF" is acceptable and will be made part of the record for this file. Once an alternate brand name is accepted that name may be used for any formulation which has been approved for your product.

You have also submitted an alternate formulation. Although it appears that this alternate formulation could be processed as an accelerated review of a minor formulation change as per PR Notice 98-10 Section V (3), it must be submitted as an amendment: "...a formulation change may only be accomplished through submission of an application for amended registration..." This type of change (the substitution of an inert ingredient other than a fragrance or dye) will be reviewed by our chemistry branch. Resubmit this alternate formulation as an amendment.

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. J. J.						
DATE	6/26/00						

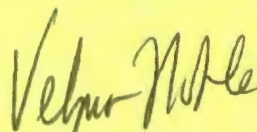
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In addition, make the following corrections before resubmitting the Confidential Statement of Formula (CSF) for the Alternate Formulation:

1. All CSFs must bear the name of record "Synergize" for the product, not an alternate brand name.
2. List the EPA Registration Number on your CSF: "66171-7," not the file symbol.

Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



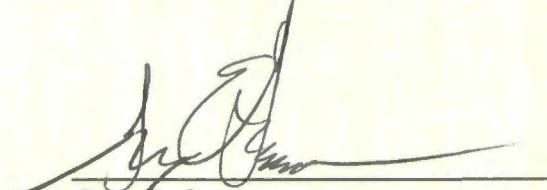
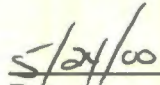
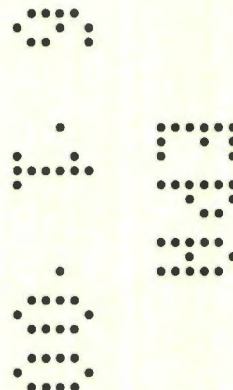
Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

7510C:T.Lantz:6/23/00:66171-7a

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

  
\_\_\_\_\_  
Gary E. Gaumer  
President  
\_\_\_\_\_  
Date



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number <b>66171-7</b>	2. EPA Product Manager <b>Velma Noble</b>	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Synergize</b>	PM# <b>31</b>	
5. Name and Address of Applicant (Include ZIP Code)  <b>Preserve International</b> <b>PO Box 3135</b> <b>Turlock, CA 95381</b> <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

- 1-Notification of minor formulation change per PR Notice 98-10  
2-Notification of Alternate Brand Name per PR Notice 98-10  
Name to be Synergize NF

## Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted			If "Yes" Unit Packaging wgt.	No. per container	
			If "Yes" Package wgt	No. per container	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <b>bulk, 250g, 55, 30, 15, 5, 2.5, 1 gallon</b>		5. Location of Label Directions	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other <b>Screened</b>			

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name <b>GARY GAUMER</b>	Title <b>President.</b>	Telephone No. (Include Area Code) <b>(530) 879-9270</b>
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		Application Received (Stamped) 
2. Signature 	3. Title <b>President.</b>	
4. Typed Name <b>GARY GAUMER</b>	5. Date <b>5/24/00</b>	



**FQPA**

Reviewer ID

Submission No.

Data Package No.

T. L. Witz  
5576401

**FQPA**

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 6671-T PH 31 Action Code 187

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes |15| Child-resistant Packaging ☐ (C) Certification  
☐ (N) No ☐ (S) Service Person

|20| Registration Type: ☐ (R) Non-residential Use Only

☐ (1) Conditional ☐ (2) Unconditional

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted ☐ (R) Restricted

☐ (G) General ☐ (N) Not Classified

☐ (N) Not-Applicable

*Due Date:*

*6/21/00*

|35| Date on Application: |04| EPA Received Date:

0 2 1 6 0 0  
MO DAY YR

0 2 2 2 0 0  
MO DAY YR

|40| Date Received by PH

0 3 0 7 0 0  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All ☐ (6) Owner Submission

☐ (4) Not Applicable ☐ (7) Total Submission

☐ (5) Not Submitted ☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFGB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE


|115| FINAL Response ACTION Code 18

|125| Response : APR 24 2000



MO DAY YR

75-DAY RESPONSE DUE DATE

/ (Y) Yes

/ (N) No

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460</p> </div> <div style="text-align: center;"> <p><b>NOTICE OF PESTICIDE:</b>  <u>  x  </u> Registration  <u>      </u> Reregistration            (under FIFRA, as amended)</p> </div> </div>	<p>EPA Reg. Number: <b>66171-7</b></p>	<p>Date of Issuance: <b>APR 24 2000</b></p>
	<p>Term of Issuance: <b>CONDITIONAL</b></p>	
	<p>Name of Pesticide Product: <b>Synergize</b></p>	
<p>Name and Address of Registrant (include ZIP Code):  <b>Preserve International            336 Broadway, Suite 18            Chico, CA 95928</b></p>		
<p><small><b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</small></p>		
<p><small>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</small></p> <p><small>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</small></p> <p><b>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</b></p> <ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li> <li>2. Add the phrase EPA Registration Number "EPA Reg. No. 66171-7".</li> </ol>		
<p>Signature of Approving Official:     <b>Velma Noble            Regulatory Management Branch 1            Antimicrobial Division (7510C)</b></p>		<p>Date:   <b>APR 24 2000</b></p>

EPA Form 8570-6

CONCURRENCES							
SYMBOL	7510C						
SURNAME	J. Leach						
DATE	4/21/00						208



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

page 2  
EPA Reg. No. 66171-7

3. On the first page in the product description section, delete the site "dressing plants" as it is not in agreement with the other sites on your label.

4. On the first page under the heading "Pesticide Disposal" revise to state "...at the nearest EPA Regional Office for guidance."

5. On page two in the "Directions for Use" section of the label revise the second statement as follows: "Registered for disinfecting and cleaning hard non-porous surfaces." replacing the word "deodorizing" with the word "cleaning."

6. On page two in the "Directions for Use" section of the label revise the following statement exactly as follows: "To disinfectant and clean *hard non-porous surfaces* of walls, floors, tables, sinks, refrigerator exteriors, telephone booths, and garbage cans in *non-animal areas associated with the sites noted above.*" Revise the statement which follows to read: "Apply a solution of 1/2 ounce Synergize per gallon of water (dilute 1:256) to *precleaned surfaces.*"

7. On page two in the directions for "Boot/Shoe Wash" revise the following statement: "Scrape *waterproof shoes or boots* and place..."

8. On page three in the directions for swine producing facilities revise statement #3 exactly as follows: "Remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceiling of barns, pens, stalls, chutes, and other facilities occupied or traversed by hogs or other animals." deleting the phrase which proceeded this statement "Remove when possible".

9. On page three revise statement #9 of the swine producing facilities directions, #9 in the farm premise, equine facilities, veal barns, ratites facilities, calf pens, and vehicles directions, and #7 in the poultry house directions to read as follows: "Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers, and equipment which may come in contact with food with soap or detergent, and rinse with potable water before reuse."

10. On page three in the directions for farm premise, equine facilities, veal barns, ratites facilities, calf pens, and vehicles add the following statement to #6: "Allow to remain in contact with this solution for at least 10 minutes."

11. Delete the following ~~statements~~ from the "Precautionary

SYMBOL	Statements: "For handling activities during thermofogging exposures wear either a respirator with organic vapor (OV)....."					
SURNAME	.....					
DATE	.....					
						209



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

page 3

EPA Reg. No. 66171-7

cartridge, or a canister with any N, P, R, or HE prefilter. For all other exposures" Begin the next statement with "Wear a dust/mist/filtering respirator..."

12. The Agency has made the changes to the Confidential Statement of Formula (CSF) which were agreed upon in our phone conversation with you on 3/20/2000. Revise your copy of the CSF accordingly.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the final printed label prior to the release of the product for shipment.

If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

DHE

Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)

Enclosure (stamped label)  
7510C:T.Lantz:3/30/00:66171-7

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

210



APR 24 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
(registered under EPA Reg. No. 66171-7

# SYNERGIZE

## CLEANER-DISINFECTANT

*Synergize cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, ~~Washers~~, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.*

Staphylococcus aureus A.T.C.C. 6538

Pseudomonas aeruginosa A.T.C.C. 15442

Salmonella choleraesuis A.T.C.C. 10708

**ACTIVE INGREDIENTS**

Alkyl (C <sub>12</sub> 67%, C <sub>14</sub> 25%, C <sub>16</sub> 7%, C <sub>18</sub> 1%) dimethyl benzyl ammonium chloride .....	26.00%
Glutaraldehyde .....	7.00%
<b>INERT INGREDIENTS</b> .....	<b>67.00%</b>
<b>TOTAL</b> .....	<b>100.00%</b>

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

**STORAGE AND DISPOSAL****Do not contaminate water, food, or feed, by storage and disposal.****PESTICIDE STORAGE:**

Store away from heat. Do not transfer to another container. Do not reuse empty container.

**PESTICIDE DISPOSAL:**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

**CONTAINER DISPOSAL:**

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**EPA Registration No.: 66171-****EPA Establishment No.: 66171-TN-001**

 **PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by

**PRESERVE INTERNATIONAL ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 24 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 66171-7

#### DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises, vehicles and enclosures.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) Remove when possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
- 4) Empty all troughs, racks, and other feeding and watering appliances.
- 5) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 6) Thoroughly saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 9) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dil 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

#### PRECAUTIONARY STATEMENTS

Hazards to humans and domestic animals

#### DANGER

**KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. For handling activities during thermofogging exposures, wear either a respirator with organic vapor (OV) cartridge, or a canister with any N, P, R, or HE prefilter. For all other exposures, wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

#### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons



# SYNERGIZE DRAFT LABEL

February 17, 2000

Page 2

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

APR 24 2000  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 66171-7

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleanser. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective disinfecting and cleaning in one operation. SYNERGIZE is effective in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing 5% serum.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and deodorizing hard non-porous surfaces. Not for use on feed, food or litter.

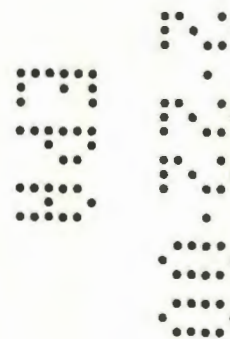
SYNERGIZE cleaner-disinfectant is specifically formulated for industrial use in the following Animal and Poultry Housing facilities: Turkey, Breeder, Grow Out, Fryer, Layer, Hatcheries and Swine Producing Facilities as well as the following equipment in these facilities: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Areas, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratite Facilities (Ostrich, Emu and Rhea Facilities), Calf Pens and associated Farm Vehicles.

## USE DIRECTIONS:

To disinfect and clean walls, floors, tables, sinks, refrigerators, telephone booths and garbage cans. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

BOOT/SHOE WASH: To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape shoes and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for 10 minutes. Change the disinfecting solution when solution becomes visibly dirty.

VEHICLES: To disinfect the non-porous, hard surfaces of vehicles use a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.



\*\*\*\*\*  
\*\*\* TX REPORT \*\*\*  
\*\*\*\*\*

TRANSMISSION OK

TX/RX NO 3593  
CONNECTION TEL 915308799212  
SUBADDRESS  
CONNECTION ID  
ST. TIME 04/25 08:23  
USAGE T 03'08  
PGS. 7  
RESULT OK

United States Environmental Protection Agency  
Washington, D.C. 20460



Office of Prevention, Pesticides and Toxic Substances  
Office of Pesticide Programs  
Antimicrobial Division

FAX NUMBER (703) 308-6466

**FACSIMILE REQUEST/COVER SHEET**  
(Please type or print clearly in black ink only)

**SEND FAX TO:**

Name: Gary Gaumer

Office:

FAX Phone No. (530) 879-9212

Office Phone No.

**FROM:**

Name: Tracy Lantz

Division/Branch: RMRT

Office Phone No. (703) 308-6415





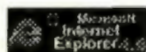
## MEAT PRODUCTS

### 2015 Poultry Slaughtering and Processing

- [Meat Packing Plants](#)
    - [Sausages and Other Prepared Meat Products](#)
    - [Poultry Slaughtering and Processing](#)
  - [Dairy Products](#)
    - [Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialities](#)
    - [Grain Mill Products](#)
    - [Bakery Products](#)
    - [Sugar and Confectionery Products](#)
    - [Fats and Oils](#)
    - [Beverages](#)
    - [Miscellaneous Food Preparations and Kindred Products](#)
- Establishments primarily engaged in slaughtering, **dressing**, packing, freezing, and canning poultry, rabbits, and other small game, or in manufacturing products from such meats, for their own account or on a contract basis for the trade. This industry also includes the drying, freezing, and breaking of eggs. Establishments primarily engaged in cleaning, oil treating, packing, and grading of eggs are classified in Wholesale Trade, Industry 5144; and those engaged in the cutting up and resale of purchased fresh carcasses are classified in Wholesale and Retail Trade.
- Chickens, processed: fresh, frozen, canned, or cooked  
 Chickens: slaughtering and dressing  
 Ducks, processed: fresh, frozen, canned or cooked  
 Ducks: slaughtering and dressing  
 Egg albumen  
 Egg substitutes made from eggs  
 Eggs: canned, dehydrated, desiccated, frozen, and processed  
 Eggs: Drying, freezing, and breaking  
 Frankfurters, poultry  
 Game, small: fresh, frozen, canned, or cooked  
 Game, small: slaughtering and dressing  
 Geese, processed: fresh, frozen, canned, or cooked  
 Geese: slaughtering and dressing  
 Ham, poultry  
 Luncheon meat, poultry  
 Poultry, processed: fresh, frozen, canned or cooked  
 Poultry: slaughtering and dressing  
 Rabbits, processed: fresh, frozen, canned, or cooked  
 Rabbits: slaughtering and dressing  
 Turkeys, processed: fresh, frozen, canned or cooked  
 Turkeys: slaughtering and dressing



[Top](#)



\*Product ingredient source information may be entitled to confidential treatment\*



## ACTIVE PRODUCTS CONTAINING THE ACTIVE INGREDIENT 043901

## Ethylene glycol monobutyl ether gibberellate

PERCENT	IDENT. NO.	STATUS	FORM CODE	PRODUCT NAME
25.0000	<del>662-72</del>	A	15	GDA 25
50.0000	<del>662-73</del>	A	15	GDA 50
25.0000	<del>662-74</del>	A	15	SEPACIDE 25
50.0000	<del>662-75</del>	A	15	SEPACIDE 50
50.0000	1448-354 (typical)	A no farm	16	BUSAN 1202
27.5000	<del>1706-180</del>	A	15	NALCON 7638
07.5000	<del>3876-157</del>	A	15	DEARCIDE 792
25.0000	<del>8133-20</del>	A	16	BACTRON K-31 MICROBIOCIDAL
13.0000	8383-6 pull disinfectant hospitals	A	16	SPORICIDIN-HD CONCENTRATED FOR HEMODIALYSIS
25.0000	<del>10352-14</del>	A	16	UCARCIDE 125 ANTIMICROBIAL
20.0000	* <del>10352-18</del> farm -	A	15	UCARSAN SANITIZER 420
5.0000	<del>10352-20</del>	A	02	UCARCIDE 225 ANTIMICROBIAL
50.0000	<del>10352-21</del>	A	02	UCARCIDE 250 ANTIMICROBIAL
45.0000	10352-22 very broad A, no farm	A	16	AQUCAR 545 WATER TREATMENT MICROBIOCIDAL
15.0000	<del>10352-23</del>	A	16	AQUCAR 515 WATER TREATMENT MICROBIOCIDAL
50.0000	<del>10352-24</del>	A	16	UCARCIDE 150 ANTIMICROBIAL
45.0000	<del>10352-25</del>	A	16	UCARCIDE 145 LT ANTIMICROBIAL
12.8000	* <del>10352-26</del> farm -	A	15	UCARSAN SANITIZER 4128
15.0000	* <del>10352-27</del> food processing -	A	16	UCONEX 315 ANTIMICROBIAL
45.0000	<del>10352-28</del>	A	16	UCONEX 345 ANTIMICROBIAL
14.0000	<del>10352-30</del>	A	16	UCARCIDE 114 ANTIMICROBIAL
14.0000	<del>10352-31</del>	A	16	AQUCAR 514 WATER TREATMENT MICROBIOCIDAL
42.5000	<del>10352-32</del>	A	16	UCARCIDE 142 ANTIMICROBIAL
42.5000	<del>10352-33</del>	A	16	AQUCAR 542 WATER TREATMENT MICROBIOCIDAL
50.0000	<del>10352-35</del>	A	15	UCARCIDE 750 ANTIMICROBIAL
50.0000	<del>10352-37</del>	A	16	PIROR 850 SLIMICIDE AND WATER TREATMENT MICROBIOCIDAL
50.0000	10352-38 hard porous surfaces	A	15	UCARCIDE 250 PRESERVATIVE
25.0000	10352-39 " " A "	A	16	UCARCIDE 225 PRESERVATIVE
04.0000	10352-40 " " A "	A	16	AQUCAR 504 WATER TREATMENT MICROBIOCIDAL
25.0000	<del>10352-41</del>	A	16	PIROR 825 SLIMICIDE
15.0000	10352-43 ponds	A	16	UCARCIDE 115 ANTIMICROBIAL
25.6000	* <del>10352-44</del> poultry, farm -	A	15	UCARSAN 4256 SANITIZER
42.5000	<del>10352-48</del>	A	16	PIROR 842 SLIMICIDE
30.0000	<del>10352-52</del>	A	16	UCARCIDE 130 LT ANTIMICROBIAL
25.0000	<del>10707-40</del>	A	16	X-CIDE-102 INDUSTRIAL BACTERICIDE
50.0000	<del>10707-41</del>	A	16	X-CIDE 105
20.0000	<del>10707-42</del>	A	16	X-CIDE 107 INDUSTRIAL BACTERICIDE
00.2500	* <del>15136-9</del> commercial areas -	A	16	WAVICIDE-06 PLUS
50.0000	<del>33753-24</del>	A	16	MYACIDE GDA
00.2750	55195-3 hospitals + related, toilets	A	16	COLDCIDE 0.25%
00.2750	55195-4 institutions / farm	A	10	COLDCIDE-0.25% DISINFECTING WIPES
25.0000	<del>55195-5</del>	A	16	COLDCIDE - 25 MICROBIOCIDAL CONCENTRATE

pull labels looking  
for same sites

delete from label  
any sites which  
are not  
on other  
labels.

Union Carbide  
will be in  
here if  
we req. for  
any new  
uses.

## ACTIVE PRODUCTS CONTAINING THE ACTIVE INGREDIENT 043901

Ethylene glycol monobutyl ether gibberellate

PERCENT	IDENT. NO.	STATUS	FORM CODE	PRODUCT NAME
00.2400	56095-2	household A -	10	CIDE-SWIPES C-100A
00.2400	56095-4	" A	10	CIDE-SWIPES P-100B
09.6100	59839-1	animals A	09	VITAL-CIDE/PREMICIDE
25.7500	<del>59894-4</del>	A	16	GKN-O
43.3000	<del>59894-7</del>	A	16	BACTRON K-86 MICROBIOCIDE
26.0000	63720-1	disinfectant A	15	DIACIDE HD DISINFECTING SOLUTION
50.0000	<del>68868-2</del>	A	16	SURCIDE G-50
10.7200	71814-1	medical waste treat A	16	STER-CID
46.5000	<del>72674-13</del>	A	16	REPUTAIN
14.0000	MS99000400	hatchery poultry	15	SANITIZER 3134

Special Local Needs



04/07/00

Reference Files System

Product Data Report

Identification Number: MS99000400

Case Barcode:

Product Name: SANITIZER 3134

Case Type: L Special Local Need

Company: 71134 APPLIED SOLUTIONS, INC

Product Manager: 33 Marshall Swindell

Product Status: A Active

Cancel/Transfer Reason:

Formulation Code: 15 Soluble Concentrate

Toxicity Category: 1 Danger

RCRA Classification: Not Available

Label Date: /

Approval Date: 07/02/99

Expiration Date: / /

Stocks Date: / /

Transferred: No

Suspended: No

Use Categories

-----

Terrestrial Food Crop:	No
Terrestrial Feed Crop:	No
Terrestrial Non-Food Crop:	No
Aquatic Food Crop:	No
Aquatic Non-Food Outdoor:	No
Aquatic Non-Food Residential:	No
Aquatic Non-Food Industrial:	No
Greenhouse Food Crop:	No
Greenhouse Non-Food Crop:	No
Forestry:	No
Residential Outdoor:	No
Indoor Food:	Yes
Indoor Non-Food:	Yes
Indoor Residential:	No
Indoor Medical:	No

Pest Categories

-----

Non-Pest:	No
Disinfectant:	Yes
Fungal:	No
Invertebrate:	No
Nematodal:	No
Plant:	No
Vertebrate:	No

Miscellaneous Flags

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Restricted Use:	No
Conditional Use:	No
Reregistration:	No
Child Resistant Packaging:	No
Special Review:	No

PM 33

10352-18

4/30/99

1068

Where is actual label?



# UCARSAN

## Sanitizers

### UCARSAN® 4128 and 420

#### Introduction

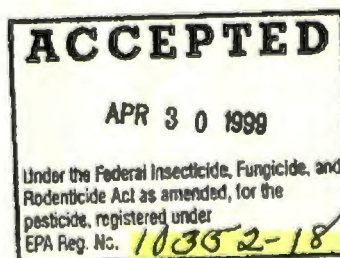
UCARSAN® Sanitizers are specially formulated for farm animal and poultry housing facilities and equipment, as well as industrial equipment and buildings. UCARSAN® Sanitizers combine the powerful antimicrobial action of glutaraldehyde with an effective synthetic detergent. The products differ only in concentration as supplied. When diluted according to label directions, they both provide identical end-use solutions containing 0.1% glutaraldehyde.

#### Special Features and Benefits

At their recommended use-dilutions of 0.1% (1000 ppm) glutaraldehyde, UCARSAN Sanitizers have many important advantages including:

- Effective against a broad spectrum of microorganisms, including viruses\* pathogenic to animals.
- Fast acting.
- No tacky buildup on treated surfaces, eliminating the need for time-consuming and costly removal and cleanup.
- Do not contain or release formaldehyde.
- Effective performance on a wide variety of construction materials.
- Not affected by hard water.
- Noncorrosive to metals that can tolerate exposure to water, thus avoiding etching, pitting, or scale formation.
- Properly diluted solutions pose no detrimental effects to waste treatment systems.

\*Please refer to "EPA Virucidal Tests" table on page 3.





## Product Performance

UCARSAN® Sanitizers are suitable for use on a wide variety of surfaces. In actual field use, they reduce contamination on commonly used materials of construction, including stainless steel, aluminum, painted and unpainted concrete, plastic, and wood. Furthermore, they are no more damaging to these materials than is water. Even after repeated applications, there was no detectable buildup or tacky residue remaining after the treated surfaces had dried.

There have been no adverse effects reported in the hatch rate, growout rate, or general health appearance of fowl that were hatched and processed in UCARSAN Sanitizer-treated areas.

## Antimicrobial Activity

The effectiveness of UCARSAN® Sanitizers can be seen in the AOAC Germicidal and Detergent Sanitizer Test. At the recommended use dilution, UCARSAN® Sanitizers completely destroyed test microorganisms in less than one minute, even in the presence of extremely hard water.

### AOAC Germicidal and Detergent Sanitizer Test

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

	Microorganism Level (cfu/mL)	
	Initial	Surviving After 1 min.
<i>Escherichia coli</i> ATCC 11229	4.6 x 10 <sup>8</sup>	0
<i>Salmonella typhi</i> ATCC 6539	2.0 x 10 <sup>8</sup>	0
<i>Staphylococcus aureus</i> ATCC 6538	3.8 x 10 <sup>8</sup>	0

UCARSAN® Sanitizers were also tested by a modified EPA Sanitizer Test for non-food-contact surfaces against microorganisms that are particularly troublesome in animal health. UCARSAN® Sanitizers effectively destroyed the target organisms within 5 minutes.

**ACCEPTED**

APR 30 1999

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10952-18

**Modified EPA Sanitizer Test**

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

Microorganism	Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.
Escherichia coli ATCC 8739	$2.3 \times 10^5$	0
Salmonella pullorum ATCC 10398	$4.7 \times 10^6$	0
Salmonella typhi ATCC 6539	$3.0 \times 10^5$	0
Pseudomonas aeruginosa ATCC 15442	$3.5 \times 10^6$	0
Staphylococcus aureus ATCC 6538	$2.7 \times 10^6$	0
Klebsiella pneumoniae ATCC 4352	$3.2 \times 10^6$	0
Clostridium perfringens ATCC 13124* - <i>phage type 1</i>	$5.3 \times 10^3$	0
Enterobacter aerogenes ATCC 13048*	$6.1 \times 10^4$	0
Haemophilus parasuis ATCC 19417*	$4.6 \times 10^4$	0
Mycoplasma gallisepticum ATCC 15302* -	$5.1 \times 10^4$	0
Mycoplasma synoviae ATCC 25204*	$1.7 \times 10^5$	0
Pasturella multocida ATCC 8747*	$2.0 \times 10^5$	0
Salmonella enteritidis ATCC 13076*	$5.9 \times 10^5$	66
Streptococcus suis ATCC 43765*	$9.1 \times 10^4$	0

\* Wood surface, test solution contains 5% serum albumin

The efficacy of UCARSAN<sup>®</sup> Sanitizers against a number of important viruses was determined in hard water according to US EPA guidelines for disinfectants intended for use on dry inanimate surfaces. (US EPA Pesticide assessment guidelines, subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.) UCARSAN<sup>®</sup> Sanitizers significantly reduced the titer of each virus after 5 or 10 minutes of contact.

**EPA Virucidal Tests**

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200-1400 ppm

Virus	-log <sub>10</sub> TCID <sub>50</sub> /0.05 mL		Contact Time, min.	GA, Conc. (ppm)
	Control Titer	Reduction in Titer*		
New Castle Disease Virus	> 6.0†	≥ 5.5	5	1000
Avian Reovirus	5.6	≥ 4.1	10	500
Avian Rotavirus	6.6	≥ 4.1	10	500
Canine Parvovirus	6.0	≥ 3.5	10	500
Infectious Bronchitis Virus	6.2	≥ 5.7	10	500
Pseudorabies Virus	5.2	≥ 4.7	10	500
Transmissible Gastroenteritis Virus	5.2	≥ 4.7	10	500
Infectious Bursal Disease Virus	> 6.0†	≥ 3.5	5	1000
Avian Influenza Virus	> 6.0†	≥ 5.5	5	1000
Avian Laryngotracheitis	5.5‡	≥ 4.1	5	1000
Marek's Disease Virus	5.2‡	≥ 4.5	5	1000
Porcine Reproductive & Respiratory Syndrome Virus (PRRS)	6.0**	≥ 6.0	5	1000
Hog Cholera Virus	6.5**	≥ 6.5	5	1000

\* No virus remaining and &gt;3-log reduction in titer in 10 min is required to pass the test.

**ACCEPTED**

APR 30 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10352-18



† Titer is  $-\log_{10} \text{TCID}_{50}/0.2 \text{ mL}$ .

‡ Titer is  $-\log_{10} \text{TCID}_{50}/\text{mL}$ .

\*\* Titer is  $-\log_{10} \text{TCID}_{50}/0.1 \text{ mL}$ .

## Compatibility

UCARSAN<sup>®</sup> Sanitizers are suitable for use on many surfaces. At the recommended use-dilution, they are compatible with all common materials of construction that can tolerate exposure to water. The following materials were subjected to 25 spray/dry cycles at 25°C, without rinsing, with no detectable changes relative to duplicate materials sprayed with water.

- Aluminum
- Brass
- Chrome-Plated Steel
- Copper
- Stainless Steel
- Glass
- Glazed Ceramic Tile
- Unglazed Ceramic Tile
- Linoleum Floor Tile
- Latex Rubber
- Polyethylene
- Unpainted Wood

## Effectiveness on Materials of Construction

UCARSAN<sup>®</sup> Sanitizers are effective on most commonly used materials of construction. When tested according to the EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces, UCARSAN<sup>®</sup> Sanitizers effectively destroyed microorganisms on aluminum, stainless steel, polyethylene, galvanized steel, glazed ceramic tile, unglazed ceramic tile, unpainted wood, and cement at the recommended use-dilution.

### EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces

Contact Temperature = 25°C

Hardness as CAC03 = 1200 ppm

Contains 5% serum albumin

**ACCEPTED**

APR 30 1999

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10352-18

Test Surface	<i>Staphylococcus aureus</i> ATCC 6358 Microorganism Level (cfu/mL)		<i>Klebsiella pneumoniae</i> ATCC 4352 Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.	Initial	Surviving After 5 min.
Aluminum	$1.2 \times 10^6$	0	$1.8 \times 10^6$	0
Stainless Steel	$1.6 \times 10^6$	0	$2.1 \times 10^6$	0
Polyethylene	$2.1 \times 10^6$	0	$6.0 \times 10^5$	0
Galvanized Steel	$3.7 \times 10^4$	6	$5.4 \times 10^4$	0
Glazed Ceramic Tile	$1.3 \times 10^6$	0	$1.5 \times 10^6$	0
Unglazed Ceramic Tile	$3.4 \times 10^5$	5	$7.3 \times 10^4$	9
Unpainted Wood	$7.1 \times 10^4$	19	$6.9 \times 10^4$	10
Cement	$6.3 \times 10^4$	1	$5.4 \times 10^4$	10

## Applications

UCARSAN® Sanitizers effectively sanitize over a broad range of use-conditions. They can be easily diluted with available water without concern for reducing performance because of interactions with water hardness. Fogging, atomizing, or spraying are all effective application techniques. UCARSAN® Sanitizers have demonstrated effectiveness in controlling microorganisms in the following critical areas:

### Farm Animal and Poultry Housing Facilities

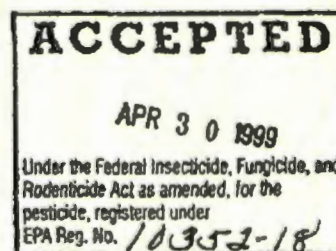
UCARSAN® Sanitizers are ideal for sanitizing hatchers and setters, as well as egg rooms, tray washers, animal processing areas, barns and farrowing areas, farm equipment, and general farm housing areas. UCARSAN® 420 is a concentrated solution for use by large volume users, while with UCARSAN® 4128 a convenient 1 ounce-to-1 gallon dilution is all that is required to obtain the correct usage concentration.

### Industrial Equipment and Buildings

UCARSAN® Sanitizer 420 is also available for sanitizing industrial equipment and buildings, including clean rooms, mixing and product packaging equipment, transfer lines, and storage tanks.

## Summary

At a use concentration of 0.1% glutaraldehyde, UCARSAN® Sanitizers can be used effectively to control many important pathogenic microorganisms, including viruses. For sanitizing farm animal and poultry housing facilities and equipment, as well as industrial equipment and buildings, UCARSAN® Sanitizers are effective on a variety of surfaces within 5 minutes of application. (Please refer to the product label for specific use directions.)





## Safe Handling, Storage, and Disposal

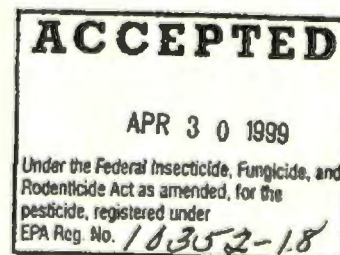
When applying UCARSAN® Sanitizers, it is important to wear the appropriate protective equipment. This equipment includes proper gloves, splash-proof monogoggles or both safety glasses with side shields and a wrap-around full-face shield, coveralls, and when necessary, respiratory equipment. When applying glutaraldehyde sanitizers by fogging, spraying, or atomizing, it is necessary to wear an organic vapor cartridge respirator. **Please refer to the product label for specific precautions and use directions.** Further information and precautions regarding the handling, storage, and disposal of UCARSAN Sanitizers can be obtained by consulting the latest Union Carbide Material Safety Data Sheet and the *Glutaraldehyde Safe Handling and Storage Guide*, publication number UC-1255, available from your Union Carbide representative. See the back page for addresses and phone numbers.

## Product Safety

When considering the use of any Union Carbide products in a particular application, you should review our latest Material Safety Data Sheets and ensure that the use you intend can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Union Carbide Sales Office nearest you. Before handling any other products mentioned in the text, you should obtain available product safety information and take necessary steps to ensure safety of use.

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Union Carbide requests that the customer read, understand, and comply with the information contained in this publication and the current Material Safety Data Sheet(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.



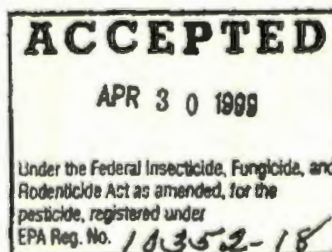
## Emergency Service

Union Carbide maintains a 24-hour emergency service for its products. The Chemical Manufacturers Association (CHEMTREC), Transport Canada (CANUTEC), and the National Chemical Emergency Center also maintain 24-hour emergency service:

Location	Union Carbide Products	All Chemical Products
Mainland United States and Puerto Rico	Phone Union Carbide HELP: (800) UCC-HELP (toll-free), i.e., (800) 822-4357	Phone CHEMTREC: (800) 424-9300 (toll-free)
Alaska and Hawaii	Phone Mainland United States: (304) 744-3487 (collect)	Phone CHEMTREC: (800) 424-9300 (toll-free)
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**Union Carbide Japan KK**

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**South Africa**

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Fax (27-11) 622-1282

**ACCEPTED**

APR 30 1989

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10952-18

PM33

10352-26

4/30/99

1018

where is actual label?



# UCARSAN

## Sanitizers

### UCARSAN® 4128 and 420

#### Introduction

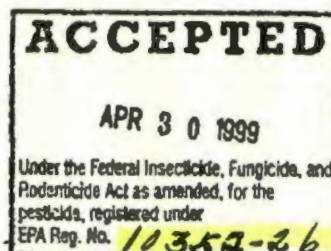
UCARSAN® Sanitizers are specially formulated for farm animal and poultry housing facilities and equipment, as well as industrial equipment and buildings. UCARSAN® Sanitizers combine the powerful antimicrobial action of glutaraldehyde with an effective synthetic detergent. The products differ only in concentration as supplied. When diluted according to label directions, they both provide identical end-use solutions containing 0.1% glutaraldehyde.

#### Special Features and Benefits

At their recommended use-dilutions of 0.1% (1000 ppm) glutaraldehyde, UCARSAN® Sanitizers have many important advantages including:

- Effective against a broad spectrum of microorganisms, including viruses\* pathogenic to animals.
- Fast acting.
- No tacky buildup on treated surfaces, eliminating the need for time-consuming and costly removal and cleanup.
- Do not contain or release formaldehyde.
- Effective performance on a wide variety of construction materials.
- Not affected by hard water.
- Noncorrosive to metals that can tolerate exposure to water, thus avoiding etching, pitting, or scale formation.
- Properly diluted solutions pose no detrimental effects to waste treatment systems.

\*Please refer to "EPA Virucidal Tests" table on page 3.





## Product Performance

UCARSAN® Sanitizers are suitable for use on a wide variety of surfaces. In actual field use, they reduce contamination on commonly used materials of construction, including stainless steel, aluminum, painted and unpainted concrete, plastic, and wood. Furthermore, they are no more damaging to these materials than is water. Even after repeated applications, there was no detectable buildup or tacky residue remaining after the treated surfaces had dried.

There have been no adverse effects reported in the hatch rate, growout rate, or general health appearance of fowl that were hatched and processed in UCARSAN Sanitizer-treated areas.

## Antimicrobial Activity

The effectiveness of UCARSAN® Sanitizers can be seen in the AOAC Germicidal and Detergent Sanitizer Test. At the recommended use dilution, UCARSAN® Sanitizers completely destroyed test microorganisms in less than one minute, even in the presence of extremely hard water.

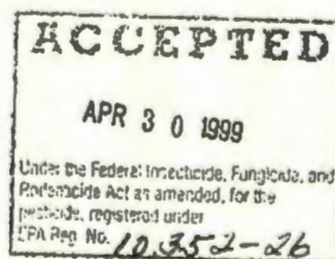
### AOAC Germicidal and Detergent Sanitizer Test

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

	Microorganism Level (cfu/mL)	
	Initial	Surviving After 1 min.
<i>Escherichia coli</i> ATCC 11229	$4.6 \times 10^8$	0
<i>Salmonella typhi</i> ATCC 6539	$2.0 \times 10^8$	0
<i>Staphylococcus aureus</i> ATCC 6538	$3.8 \times 10^8$	0

UCARSAN® Sanitizers were also tested by a modified EPA Sanitizer Test for non-food-contact surfaces against microorganisms that are particularly troublesome in animal health. UCARSAN® Sanitizers effectively destroyed the target organisms within 5 minutes.



**Modified EPA Sanitizer Test**

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

Microorganism	Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.
Escherichia coli ATCC 8739	$2.3 \times 10^5$	0
Salmonella pullorum ATCC 10398	$4.7 \times 10^6$	0
Salmonella typhi ATCC 6539	$3.0 \times 10^5$	0
Pseudomonas aeruginosa ATCC 15442	$3.5 \times 10^6$	0
Staphylococcus aureus ATCC 6538	$2.7 \times 10^6$	0
Klebsiella pneumoniae ATCC 4352	$3.2 \times 10^6$	0
Clostridium perfringens ATCC 13124*	$5.3 \times 10^3$	0
Enterobacter aerogenes ATCC 13048*	$6.1 \times 10^4$	0
Haemophilus parasuis ATCC 19417*	$4.6 \times 10^4$	0
Mycoplasma gallisepticum ATCC 15302*	$5.1 \times 10^4$	0
Mycoplasma synoviae ATCC 25204*	$1.7 \times 10^5$	0
Pasturella multocida ATCC 8747*	$2.0 \times 10^5$	0
Salmonella enteritidis ATCC 13076*	$5.9 \times 10^5$	66
Streptococcus suis ATCC 43765*	$9.1 \times 10^4$	0

\*Wood surface, test solution contains 5% serum albumin

The efficacy of UCARSAN<sup>®</sup> Sanitizers against a number of important viruses was determined in hard water according to US EPA guidelines for disinfectants intended for use on dry inanimate surfaces. (US EPA Pesticide assessment guidelines, subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.) UCARSAN<sup>®</sup> Sanitizers significantly reduced the titer of each virus after 5 or 10 minutes of contact.

**EPA Virucidal Tests**

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200-1400 ppm**ACCEPTED**

APR 30 1999

Under the Federal Insecticide, Fungicide, and  
Pesticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10352-26

Virus	-log <sub>10</sub> TCID <sub>50</sub> /0.05 mL		Contact Time, min.	GA, Conc. (ppm)
	Control Titer	Reduction in Titer*		
New Castle Disease Virus	> 6.0 <sup>†</sup>	≥ 5.5	5	1000
Avian Reovirus	5.6	≥ 4.1	10	500
Avian Rotavirus	6.6	≥ 4.1	10	500
Canine Parvovirus	6.0	≥ 3.5	10	500
Infectious Bronchitis Virus	6.2	≥ 5.7	10	500
Pseudorabies Virus	5.2	≥ 4.7	10	500
Transmissible Gastroenteritis Virus	5.2	≥ 4.7	10	500
Infectious Bursal Disease Virus	> 6.0 <sup>†</sup>	≥ 3.5	5	1000
Avian Influenza Virus	> 6.0 <sup>†</sup>	≥ 5.5	5	1000
Avian Laryngotracheitis	5.5‡	≥ 4.1	5	1000
Marek's Disease Virus	5.2‡	≥ 4.5	5	1000
Porcine Reproductive & Respiratory Syndrome Virus (PRRS)	6.0**	≥ 6.0	5	1000
Hog Cholera Virus	6.5**	≥ 6.5	5	1000

\*No virus remaining and &gt;3-log reduction in titer in 10 min is required to pass the test.

<sup>†</sup> Titer is -log<sub>10</sub>TCID<sub>50</sub>/0.2 mL.<sup>‡</sup> Titer is -log<sub>10</sub>TCID<sub>50</sub>/mL.\*\* Titer is -log<sub>10</sub>TCID<sub>50</sub>/0.1 mL.



## Compatibility

UCARSAN<sup>®</sup> Sanitizers are suitable for use on many surfaces. At the recommended use-dilution, they are compatible with all common materials of construction that can tolerate exposure to water. The following materials were subjected to 25 spray/dry cycles at 25°C, without rinsing, with no detectable changes relative to duplicate materials sprayed with water.

- Aluminum
- Brass
- Chrome-Plated Steel
- Copper
- Stainless Steel
- Glass
- Glazed Ceramic Tile
- Unglazed Ceramic Tile
- Linoleum Floor Tile
- Latex Rubber
- Polyethylene
- Unpainted Wood

## Effectiveness on Materials of Construction

UCARSAN<sup>®</sup> Sanitizers are effective on most commonly used materials of construction. When tested according to the EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces, UCARSAN<sup>®</sup> Sanitizers effectively destroyed microorganisms on aluminum, stainless steel, polyethylene, galvanized steel, glazed ceramic tile, unglazed ceramic tile, unpainted wood, and cement at the recommended use-dilution.

### EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces

Contact Temperature = 25°C

Hardness as CAC03 = 1200 ppm

Contains 5% serum albumin

Test Surface	<i>Staphylococcus aureus</i> ATCC 6358 Microorganism Level (cfu/mL)		<i>Klebsiella pneumoniae</i> ATCC 4352 Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.	Initial	Surviving After 5 min.
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Cement	$6.3 \times 10^4$	1	$5.4 \times 10^4$	10

**ACCEPTED**

APR 30 1999

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## Applications

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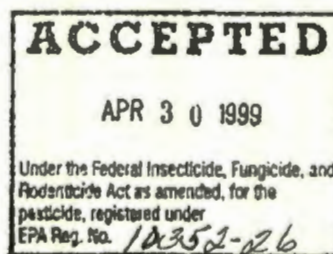
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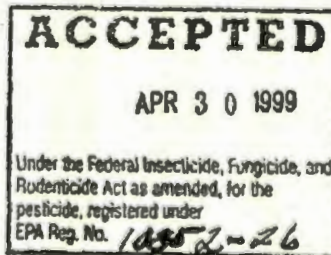
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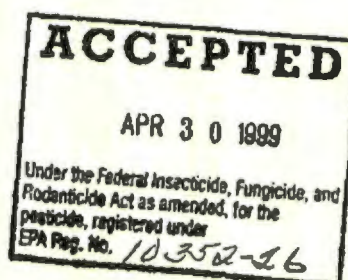
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Col. Jardines del Pedregal  
Mexico City, 01900 Mexico  
(525) 726-9070  
Fax (525) 224-2777

##### South and Central America

Union Carbide Produtos Quimicos Ltda.  
Rua Dr. Eduardo De Souza Aranha, 153  
Sao Paulo, 04543-904 Brasil  
(55-11) 828-1133  
Fax (55-11) 828-1144

##### Asia

Union Carbide Asia Pacific Inc.  
22-01 Temasak Tower, 8 Shenton Way  
Singapore 068811  
(65) 322-9922  
Fax (65) 221-0591 or 0592

##### Union Carbide Japan KK

Hiroo SK Building, 36-13 Ebisu 2-Chome  
Shibuya-Ku, Tokyo 150 Japan  
(81-35) 421-4525  
Fax (81-35) 421-4521 or 4522

##### Europe, Africa and Middle East

Union Carbide (Europe) S.A.  
7, rue du Pré-Bouvier  
Meyrin, Geneva 1217 Switzerland  
(41-22) 989-6111  
Fax (41-22) 989-6545

##### South Africa

Union Carbide South Africa (Pty.) Ltd.  
No. 1 Eastgate Lane, Bedfordview  
Johannesburg, 2008 South Africa  
(27-11) 622-8501  
Fax (27-11) 622-1282

**ACCEPTED**

APR 30 1999

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10352-26

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Union Carbide Corporation  
P. O. Box 670  
Bound Brook, New Jersey 08806

MAR 13 1995

Attention: Joan E. Young,  
Regulatory Affairs Manager

Subject: UCONEX 315 Antimicrobial  
EPA Registration Number 10352-27  
Your Submission Dated January 3, 1994  
EPA Received Date 1/13/1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to obtain approval for Hazard Warnings Statement, is acceptable provided that you make the following labeling revisions:

The heading "Hazards to Humans and Domestic Animals" is acceptable.

Revise the statement "May cause allergic skin reaction" to read "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

The addition of the statement "Causes asthmatic signs and symptoms in hyper-reactive individuals" to the product labeling is acceptable.

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-305-6966.

Sincerely,



Walter C. Francis  
Acting Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



293

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**  
**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin irritation.  
 Harmful if inhaled. Harmful if swallowed. May cause allergic skin reaction.  
 Causes asthmatic signs and symptoms in hyper-reactive individuals.  
 Do not get in eyes, on skin, on clothing.  
 Avoid breathing vapor. Do not swallow.  
 Wear goggles, protective clothing, and rubber gloves.  
 Wash thoroughly with soap and water after handling.  
 Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

UCONEX® 315 Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in bare phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 20°F (-6.5°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 60°F (20.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with Teflon® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on the label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to humans. Tests have not been made on all varieties or in all states or under all conditions. The manufacturer neither makes nor intends, nor does it authorize any agent or representative to make, any other warranties, expressed or implied, and it expressly excludes and disclaims all implied warranties of merchantability and fitness for particular purpose. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of the product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE IN REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
 CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
 SHEET FOR THIS PRODUCT.**



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 15.0%  
 Inert Ingredients: \_\_\_\_\_ 85.0%  
 100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.  
**IF INHALED:** Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
**IF SWALLOWED:** DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
 EPA Reg. No. 10352-27  
 UCONEX® is a registered trademark  
 of Union Carbide  
 Net Contents 30 or 55 gallons

EPA Est. No. 10352-WV-2  
 UCC-L90271 (E 01/94)  
 Made in USA  
 PE0194

90271 PRODUCT CODE	CONTAINER SIZE	CONTAINER SIZE
	30 GALLONS	55 GALLONS
	284 POUNDS NET WEIGHT	478 POUNDS NET WEIGHT

**EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)**

**OUTSIDE USA 01-304-744-3447**

**BEST COPY AVAILABLE**

Under the provisions of the  
 Federal Insecticide, Fungicide,  
 and Rodenticide Act, this pesticide  
 is registered under EPA Reg. No.  
 10352-27

It is a violation of Federal law

**HEAT TRANSFER SYSTEMS**

(Cooling Towers, Evaporative Condensers and Ponds, Pasteurizer Water Systems)  
 UCONEX® 315 Antimicrobial shows pump or collection basin. Either an higher feed rates for fouled system.  
 Intermittent (BAG DOSE) Feed:  
 315 Antimicrobial per 1000 gallons must be control.  
 Continuous Feed Method: in 100 -  
 UCONEX® 315 Antimicrobial per 1  
 UCONEX® 315 Antimicrobial to the  
 waters.

**WATER BASED CONVEYERS**  
 (Brewery, Juice, Dairy, Beverage, etc.)

Thoroughly clean all tanks and conveyor system as recommended by our UCC (per active) of UCONEX® 315 Antimicrobial.

**AQUEOUS METALWORK**

UCONEX® 315 Antimicrobial shows mixing such as the final collection intervals of one week or less.  
 Initial Dose: When the system is active) of UCONEX® 315 Antimicrobial control is achieved.  
 Subsequent Dose: When micro active) of UCONEX® 315 Antimicrobial as needed to maintain control. See

**PESTICIDE DISPOSAL:** Do not use is prohibited. Pesticide wastes are a violation of Federal law. If they contact your State Pesticide or your representative, or the nearest EPA PESTICIDE DISPOSAL: Metal containers for recycling or reconditioning approved by state and local authorities and local authorities, by burning. If incinerated, Do not use or sell the

MENTS  
ESTIC ANIMALS

## CHILDREN

ation.  
in reaction  
duals.

## RDS

oduct into lakes, streams, ponds,  
erms of a National Pollutant  
y has been notified in writing  
wer systems without previously  
t your State Water Board or

## NG

only used materials of  
se solutions can be stored and  
informed epoxy-plastic equipment  
as tanks inside or underground.  
high temperatures should be  
up to 100°F (37.8°C) can be  
25 °C).

## AIMER

description on the label, (b) that  
ing for use when it is used in  
d other statements on the label  
advantages and of toxicity to  
ies or under all conditions. THE  
ANALYZE ANY AGENT OR  
E APPLIED, AND IT  
MERCHANTABILITY  
and to, and the Buyer shall be  
the use of the product in any  
is

EXCLUSIVE LIABILITY FOR  
ATING FROM THE USE OR  
TY IS BASED IN CONTRACT.  
ALL BE LIMITED. AT THE  
PAYMENT OF THE PURCHASE  
CH DAMAGES ARE CLAIMED  
FOR SPECIAL, INDIRECT OR  
KIND OF THIS PRODUCT.

ND UNDERSTAND  
SAFETY DATA  
CT.



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 15.0%  
Inert Ingredients: \_\_\_\_\_ 85.0%  
100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

## UNION CARBIDE CORPORATION

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-27  
UCONEX® is a registered trademark  
of Union Carbide  
Net Contents 30 or 55 gallons

EPA Est. No. 10352-WV-2  
UCC L90271 (E 01/94)  
Made In USA  
PE0194

80271 PRODUCT CODE	CONTAINER SIZE 30 GALLONS	CONTAINER SIZE 55 GALLONS
	260 POUNDS NET WEIGHT	470 POUNDS NET WEIGHT

ACCEPTED  
with G.O.S. 1000  
11/13/94

EMERGENCY CONTACT (24 HOURS PER DAY): IN USA 1-800-UCC-HELP (1-800-822-4357)  
OUTSIDE USA 01-304-744-3487

## DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### HEAT TRANSFER SYSTEMS

(Cooling Towers, Evaporative Condensers, Air Washers, Dairy Sweetwater Systems, Hydraulic Sterilizers and Rotors, Pasteurizers and Warmers, and Recirculating and Once Through Cooling Water Systems)

UCONEX® 315 Antimicrobial should be added to the system at a point of uniform mixing, such as a pump or collection basin. Either an intermittent (SLUG DOSE) or continuous feed may be used. Use higher feed rates for fouled systems and lower rates for clean systems.

Intermittent (SLUG DOSE) Feed: Add 17 to 82 fluid ounces (20 to 100 ppm active) of UCONEX® 315 Antimicrobial per 1000 gallons of water in the system once or twice a week or as needed to maintain control.

Continuous Feed Method: Initially slug feed 17 to 82 fluid ounces (20 to 100 ppm active) of UCONEX® 315 Antimicrobial per 1000 gallons of water in the system. Then continuously feed UCONEX® 315 Antimicrobial to the system to maintain a 20 to 100 ppm level of active in process waters.

### WATER BASED CONVEYOR LUBRICANTS

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

Thoroughly clean all tanks and conveyors to remove gross soil. Rinse well. Use an automatic feed system as recommended by our UCC representative to provide 4.1 to 24.8 fluid ounces (50 to 300 ppm active) of UCONEX® 315 Antimicrobial per 100 gallons of diluted lubricant.

### AQUEOUS METALWORKING FLUIDS

UCONEX® 315 Antimicrobial should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less.

Initial Dose: When the system is noticeably fouled apply 8.2 to 24.8 fluid ounces (100 to 300 ppm active) of UCONEX® 315 Antimicrobial per 100 gallons of metalworking fluid to the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 3.4 to 16.4 fluid ounces (40 to 200 ppm active) of UCONEX® 315 Antimicrobial per 100 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Seafly fouled systems must be cleaned before treatment is begun.

## STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or material is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be re-used. Do not cut or weld on or near metal containers.

Union Carbide Corporation  
Danbury, CT 06817  
EPA Reg. No. 10352-27  
11/13/94



**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin irritation. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and nitrile gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, a stream, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**STORAGE AND HANDLING**

UCARSAN® 4250 Sanitizer is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. This product can be stored and handled in heavy plastic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 21°F (-6°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURY RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT SUCH LIABILITY IS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND  
CURRENT UNION CARBIDE MATERIAL SAFETY DATA  
SHEET FOR THIS PRODUCT.**



Active Ingredient: Glutaraldehyde 25.6%  
Inert Ingredients: 74.4%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.  
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.  
IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.  
IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.  
NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

**UNION CARBIDE CORPORATION**

39 Old Ridgebury Road • Danbury, CT 06817-0001  
EPA Reg. No. 10352-44  
UCARSAN® is a registered trademark  
of Union Carbide  
Net Contents 55 gallons

EPA Est. No. 10352-WV-2  
UCC-L90266 C(198)  
Made in USA  
PE0998

90266	CONTAINER SIZE
PRODUCT NO.	55 GALLONS
	485 POUNDS
	NET WEIGHT

**ACCEPTED**

SEP 03 1988

EMERGENCY CONTACT (24 HOURS PER DAY): IN U.S. CALL 1-800-368-5672 (5672)  
OUTSIDE U.S. CALL 201-741-3481

EPA Reg. No. 10352-44

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**DO NOT USE THIS PRODUCT ON FOOD OR FEED**

This product is for use on cement, wood, metal and ceramic surfaces.

**SANITIZING FARM, ANIMAL, AND POULTRY HOUSING FACILITIES AND EQUIPMENT.**

Remove all poultry and other animals and feed from the premises. Remove all portable equipment. Remove all litter and manure from floors and other surfaces. Empty all water troughs and feed sacks. Do not repopulate with poultry or other animals, or use equipment until treatment has been absorbed or dried. All treated feeders and waterers must be thoroughly scrubbed with detergent and rinsed with potable water prior to re-use. Ventilate thoroughly before re-use.

To sanitize vegetative pathogens: *Clostridium perfringens*, *Enterobacter aerogenes*, *Escherichia coli*, *Haemophilus parvus*, *Klebsiella pneumoniae*, *Mycoplasma gallisepticum*, *Mycoplasma synoviae*, *Pasteurella multocida*, *Salmonella enteritidis*, *Salmonella pullorum*, *Salmonella typhi*, *Staphylococcus aureus*, and *Streptococcus* spp., and viruses: Avian infectious bronchitis virus, Avian influenza virus, Avian herpesvirus, Avian reovirus, Avian rotavirus, Canine parvovirus, Infectious bursal disease, Marek's disease virus, Pseudorabies virus, Transmissible gastroenteritis virus, Hog Cholera virus and Porcine Reproductive Respiratory Syndrome.

1. Thoroughly saturate all surfaces using a mop or by spraying with a solution prepared by mixing one ounce of UCARSAN® 4250 Sanitizer with two gallons of water which produces a solution containing 0.1% active ingredient.
2. Allow to set for at least five minutes, or until thoroughly dried.
3. Ventilate thoroughly before re-use.
4. Fresh solution should be prepared daily or more often if the solution becomes diluted or soiled.

**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of acute pesticides, spray residue or sludge is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.  
**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

## UCARSAN® 4256 Sanitizer

UCARSAN® 4256 Sanitizer is specially formulated for farm animal and poultry housing facilities and equipment, as well as industrial equipment and buildings.

UCARSAN® 4256 Sanitizer combines the powerful antimicrobial action of glutaraldehyde with an effective synthetic detergent. When diluted according to label directions, the end-use solution contains 0.1% glutaraldehyde.

### Description and Special Features

At the recommended use-dilution of 0.1% (1000 ppm) glutaraldehyde, UCARSAN® 4256 Sanitizer has many important advantages including:

- Effective against a broad spectrum of microorganisms, including viruses\* pathogenic to animals.
- Fast acting.
- No tacky buildup on treated surfaces, eliminating the need for time-consuming and costly removal and cleanup.
- Does not contain or release formaldehyde.
- Effective performance on a wide variety of construction materials.
- Not affected by hard water.
- Noncorrosive to metals that can tolerate exposure to water, thus avoiding etching, pitting, or scale formation.
- Properly diluted solutions pose no detrimental effects to waste treatment systems.

\*Please refer to "EPA Virucidal Tests" table on page 3.

**ACCEPTED**

SEP 03 1999

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 18352-44



## Product Performance

UCARSAN® 4256 Sanitizer is suitable for use on a wide variety of surfaces. In actual field use, it reduces contamination on commonly used materials of construction, including stainless steel, aluminum, painted and unpainted concrete, plastic, and wood. Furthermore, it is no more damaging to these materials than is water. Even after repeated applications, there was no detectable buildup or tacky residue remaining after the treated surfaces had dried.

There have been no adverse effects reported in the hatch rate, growout rate, or general health appearance of fowl that were hatched and processed in UCARSAN 4256 Sanitizer-treated areas.

## Antimicrobial Activity

The effectiveness of UCARSAN® 4256 Sanitizer can be seen in the AOAC Germicidal and Detergent Sanitizer Test. At the recommended use dilution, UCARSAN® 4256 Sanitizer completely destroyed test microorganisms in less than one minute, even in the presence of extremely hard water.

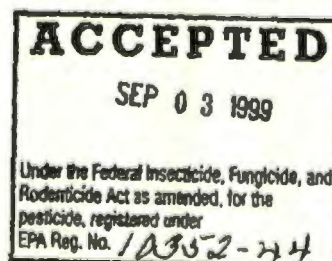
### AOAC Germicidal and Detergent Sanitizer Test

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

	Microorganism Level (cfu/mL)	
	Initial	Surviving After 1 min.
<i>Escherichia coli</i> ATCC 11229	4.6 x 10 <sup>8</sup>	0
<i>Salmonella typhi</i> ATCC 6539	2.0 x 10 <sup>8</sup>	0
<i>Staphylococcus aureus</i> ATCC 6538	3.8 x 10 <sup>8</sup>	0

UCARSAN® 4256 Sanitizer was also tested by a modified EPA Sanitizer Test for non-food-contact surfaces against microorganisms that are particularly troublesome in animal health. UCARSAN® 4256 Sanitizer completely destroyed the target organisms within 5 minutes.



### Modified EPA Sanitizer Test

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200 ppm

Microorganism	Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.
Escherichia coli ATCC 8739	2.3 x 10 <sup>5</sup>	0
Salmonella pullorum ATCC 10398	4.7 x 10 <sup>6</sup>	0
Salmonella typhi ATCC 6539	3.0 x 10 <sup>5</sup>	0
Pseudomonas aeruginosa ATCC 15442	3.5 x 10 <sup>6</sup>	0
Staphylococcus aureus ATCC 6538	2.7 x 10 <sup>6</sup>	0
Klebsiella pneumoniae ATCC 4352	3.2 x 10 <sup>6</sup>	0
Clostridium perfringens ATCC 13124*	5.3 x 10 <sup>3</sup>	0
Enterobacter aerogenes ATCC 13048*	6.1 x 10 <sup>4</sup>	0
Haemophilus parasuis ATCC 19417*	4.6 x 10 <sup>4</sup>	0
Mycoplasma gallisepticum ATCC 15302*	5.1 x 10 <sup>4</sup>	0
Mycoplasma synoviae ATCC 25204*	1.7 x 10 <sup>5</sup>	0
Pasturella multocida ATCC 8747*	2.0 x 10 <sup>5</sup>	0
Salmonella enteritidis ATCC 13076*	5.9 x 10 <sup>5</sup>	66
Streptococcus suis ATCC 43765*	9.1 x 10 <sup>4</sup>	0

\* Wood surface, test solution contains 5% serum albumin

The efficacy of UCARSAN® 4256 Sanitizer against a number of important viruses was determined in hard water according to US EPA guidelines for disinfectants intended for use on dry inanimate surfaces. (US EPA Pesticide assessment guidelines, subdivision G: Product Performance, 1982, Section 91-30, pp. 72-76.) UCARSAN® 4256 Sanitizer significantly reduced the titer of each virus after 5 or 10 minutes of contact.

### EPA Virucidal Tests

Contact Temperature = 25°C

Hardness as CaCO<sub>3</sub> = 1200-1400 ppm

**ACCEPTED**

SEP 03 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10352-44

Virus	-log <sub>10</sub> TCID <sub>50</sub> /0.05 ml			
	Control Titer	Reduction in Titer*	Contact Time, min.	GA, Conc. (ppm)
New Castle Disease Virus	> 6.0 <sup>†</sup>	≥ 5.5	5	1000
Avian Reovirus	5.6	≥ 4.1	10	500
Avian Rotovirus	6.6	≥ 4.1	10	500
Canine Parvovirus	6.0	≥ 3.5	10	500
Infectious Bronchitis Virus	6.2	≥ 5.7	10	500
Pseudorabies Virus	5.2	≥ 4.7	10	500
Transmissible Gastroenteritis Virus	5.2	≥ 4.7	10	500
Infectious Bursal Disease Virus	> 6.0 <sup>†</sup>	≥ 3.5	5	1000
Avian Influenza Virus	> 6.0 <sup>†</sup>	≥ 5.5	5	1000
Avian Laryngotracheitis	5.5‡	≥ 4.1	5	1000
Marek's Disease Virus	5.2‡	≥ 4.5	5	1000
Porcine Reproductive & Respiratory Syndrome Virus (PRRS)	6.0**	≥ 6.0	5	1000
Hog Cholera Virus	6.5**	≥ 6.5	5	1000



• A >3-log reduction in titer in 10 min is required to pass the test.

† Titer is  $-\log_{10} \text{TCID}_{50}/0.2 \text{ mL}$ .

‡ Titer is  $-\log_{10} \text{TCID}_{50}/\text{mL}$ .

•• Titer is  $-\log_{10} \text{TCID}_{50}/0.1 \text{ mL}$ .

## Compatibility

UCARSAN® 4256 Sanitizer is suitable for use on many surfaces. At the recommended use-dilution, it is compatible with all common materials of construction that can tolerate exposure to water. The following materials were subjected to 25 spray/dry cycles at 25°C, without rinsing, with no detectable changes relative to duplicate materials sprayed with water.

- Aluminum
- Brass
- Chrome-Plated Steel
- Copper
- Stainless Steel
- Glass
- Glazed Ceramic Tile
- Unglazed Ceramic Tile
- Linoleum Floor Tile
- Latex Rubber
- Polyethylene
- Unpainted Wood

## Effectiveness on Materials of Construction

UCARSAN® 4256 Sanitizer is effective on most commonly used materials of construction. When tested according to the EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces, UCARSAN® 4256 Sanitizer effectively destroys microorganisms on aluminum, stainless steel, polyethylene, galvanized steel, glazed ceramic tile, unglazed ceramic tile, unpainted wood, and cement at the recommended use-dilution.

### EPA Sanitizer Test for Inanimate, Non-Food-Contact Surfaces

Contact Temperature = 25°C

Hardness as  $\text{CaCO}_3$

Contains 5% serum albumin

**ACCEPTED**

SEP 03 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 10352-44

Test Surface	<i>Staphylococcus aureus</i> ATCC 6358 Microorganism Level (cfu/mL)		<i>Klebsiella pneumoniae</i> ATCC 4352 Microorganism Level (cfu/mL)	
	Initial	Surviving After 5 min.	Initial	Surviving After 5 min.
Aluminum	$1.2 \times 10^6$	0	$1.8 \times 10^6$	0
Stainless Steel	$1.6 \times 10^6$	0	$2.1 \times 10^6$	0
Polyethylene	$2.1 \times 10^6$	0	$6.0 \times 10^5$	0
Galvanized Steel	$3.7 \times 10^4$	6	$5.4 \times 10^4$	0
Glazed Ceramic Tile	$1.3 \times 10^6$	0	$1.5 \times 10^6$	0
Unglazed Ceramic Tile	$3.4 \times 10^5$	5	$7.3 \times 10^4$	9
Unpainted Wood	$7.1 \times 10^4$	19	$6.9 \times 10^4$	10
Cement	$6.3 \times 10^4$	1	$5.4 \times 10^4$	10

## Applications

UCARSAN® 4256 Sanitizer effectively sanitizes over a broad range of use-conditions. They can be easily diluted with available water without concern for reducing performance because of interactions with water hardness. Fogging, atomizing, or spraying are all effective application techniques. UCARSAN® 4256 Sanitizer has demonstrated effectiveness in controlling microorganisms in the following critical areas:

### Farm Animal and Poultry Housing Facilities

UCARSAN® 4256 Sanitizer is ideal for sanitizing hatchers and setters, as well as egg rooms, tray washers, animal processing areas, barns and farrowing areas, farm equipment, and general farm housing areas. UCARSAN® 4256 Sanitizer is a concentrated solution for use by large volume users. A convenient one ounce to two gallon dilution is all that is required to obtain the correct usage concentration.

### Industrial Equipment and Buildings

UCARSAN® 4256 Sanitizer is also available for sanitizing industrial equipment and buildings, including clean rooms, mixing and product packaging equipment, transfer lines, and storage tanks.

## Summary

At a use concentration of 0.1% glutaraldehyde, UCARSAN® 4256 Sanitizer can be used effectively to control many important pathogenic microorganisms, including viruses. For sanitizing farm animal and poultry housing facilities and equipment, as well as industrial equipment and buildings, UCARSAN® 4256 Sanitizer is effective on a variety of surfaces within 5 minutes of application. (Please refer to the product label for specific use directions.)

**ACCEPTED**

SEP 03 1999

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 14352-44



787  
6

## Safe Handling, Storage, and Disposal

When applying UCARSAN® 4256 Sanitizer, it is important to wear the appropriate protective equipment. This equipment includes proper gloves, splash-proof monogoggles or both safety glasses with side shields and a wrap-around full-face shield, coveralls, and when necessary, respiratory equipment. When applying glutaraldehyde sanitizers by fogging, spraying, or atomizing, it is necessary to wear an organic vapor cartridge respirator. **Please refer to the product label for specific precautions and use directions.** Further information and precautions regarding the handling, storage, and disposal of UCARSAN 4256 Sanitizer can be obtained by consulting the latest Union Carbide Material Safety Data Sheet and the *Glutaraldehyde Safe Handling and Storage Guide*, publication number UC-1255, available from your Union Carbide representative. See the back page for addresses and phone numbers.

## Product Safety

When considering the use of any Union Carbide product in a particular application, you should review our latest Material Safety Data Sheets and ensure that the use you intend can be accomplished safely. For Material Safety Data Sheets and other product safety information, contact the Union Carbide Sales Office nearest you. Before handling any other products mentioned in the text, you should obtain available product safety information and take necessary steps to ensure safety of use.

No chemical should be used as or in a food, drug, medical device, or cosmetic, or in a product or process in which it may contact a food, drug, medical device, or cosmetic until the user has determined the suitability and legality of the use. Since government regulations and use conditions are subject to change, it is the user's responsibility to determine that this information is appropriate and suitable under current, applicable laws and regulations.

Union Carbide requests that the customer read, understand, and comply with the information contained in this publication and the current Material Safety Data Sheet(s). The customer should furnish the information in this publication to its employees, contractors, and customers, or any other users of the product(s), and request that they do the same.

**ACCEPTED**

SEP 03 1999


Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 10.352-44

PM 33

15136-9

6/22/99

Page 173

	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Number: <b>15136-9</b>	Date of Issuance: <b>JUN 22 1999</b>
		Term of Issuance: <b>Conditional</b>	
		Name of Pesticide Product: <b>Wavicide-06 Plus</b>	
<b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Reregistration  (under FIFRA, as amended)			
Name and Address of Registrant (include ZIP Code):  <b>Medical Chemical Corporation 19430 Van Ness Avenue Torrance, CA 90404</b>			
<b>Note:</b> Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.			
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"><li>1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.</li><li>2. Make the following label changes:<ol style="list-style-type: none"><li>a. Revise the EPA Registration Number to read, "EPA Reg. No. "15136-9".</li></ol></li></ol>			
Signature of Approving Official: <b>Marshall Swindell</b> Product Manager 33 Regulatory Management Branch 1 Antimicrobial Division (7510C)		Date: <b>JUN 22 1999</b>	



page 2  
EPA Reg. No. 15136-9

b. In the directions for use for the HIV-1 claims, include a contact time.

c. In paragraph 2, revised the sentence " This procedure will also destroy the following viruses on inanimate surfaces ..." to read "This procedure will also destroy the following viruses on hard non-porous inanimate surfaces ...".

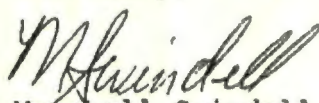
3. Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha L. Terry at (703) 308-6217.

Sincerely,



Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobial Division 7510C)

Enclosure

## Wavicide-06 Plus™

### HARD SURFACE DISINFECTANT SPRAY

#### ACTIVE INGREDIENTS:

Glutaraldehyde (1,5 Pentanedial) . . . 0.25%

Ethanol . . . . . 50%

INERT INGREDIENTS: . . . . . 49.75%

Contains a corrosion inhibitor

Bactericidal

Virucidal

Tuberculocidal

Fungicidal

Pseudomonacidal

KEEP OUT OF REACH OF  
CHILDREN

DANGER

Net contents one US gallon (3.79 li-  
ters)

FOR PROFESSIONAL AND INDUS-  
TRIAL USE ONLY

US patents: 5,004,757; 5,219,890  
and pending

Manufactured by

Medical Chemical Corp  
19430 Van Ness Ave  
Torrance, CA 90501  
(800)424-9394

EPA Reg. No.  
EPA Est. No. 8654-CA-1

Revised Apr. 9, 1999

### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Recommended for the disinfection of hard non-porous surfaces such as: counter tops, tables, chairs, cages and other environmental surfaces in hospitals, laboratories and other institutions. Wavicide-06 Plus is compatible with rubber, latex, aluminum and stainless steel when used according to instructions.

Preclean all surfaces to be disinfected. This will insure maximum contact with the disinfection solution. **DO NOT DILUTE.** For effective disinfection, spray non-critical devices with full strength Wavicide-06 Plus at room temperature until saturated. Surfaces should be kept moist for 10 Minutes. Dry surfaces with a clean cloth. This procedure will destroy vegetative pathogens including Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa and pathogenic fungi (such as Trichophyton mentagrophytes) on hard, non-porous, inanimate surfaces. This procedure will also destroy the following viruses on inanimate surfaces: Polio virus type 2, HIV-1, Adenovirus type 2 and Herpes simplex virus type 1.

Tuberculocidal at room temperature (22° C) and a 10 minute contact time (tested against M. bovi using the quantitative test method)

Special instructions for cleaning and decontaminating against HIV on surfaces/objects soiled with blood/body fluids. Observe universal precautions as defined by the CDC for surfaces soiled with blood/body fluids. Observe Universal Precautions As Defined By The CDC For Medical Instruments Or Equipment Soiled With Blood/Body Fluids. **Personal protection:** Disposable nitrile gloves, eye protection, and face masks should be worn when cleaning and disinfecting soiled equipment. **Cleaning procedure:** Blood and other bodily fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant. **Disposal of Infectious Material:** Blood and other bodily fluids should be disposed of according to approved hospital procedures.

**STORAGE AND DISPOSAL:** Store at room temperature. **CONTAINER DISPOSAL:** Thoroughly rinse container and discard in trash. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**PRECAUTIONARY STATEMENTS:** Hazardous to humans and domestic animals. This product is a sensitizer. **DANGER. Corrosive.** Causes irreversible eye damage. Do not get into eyes or on clothing. Wear goggles or face shield. Prolonged or repeated skin contact may cause allergic reaction in sensitive individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. **FLAMMABLE LIQUID.** Contains alcohol. Keep away from heat, flame or other sources of ignition.

**STATEMENT OF PRACTICAL TREATMENT:** If swallowed, call a physician or poison control center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. If in eyes, hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

See bottom of bottle for Lot No. and expiration date.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:  
JUN 2 2 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

15136-9



PM 31

56095-2

1 of 2

TEAR HERE

# CIDE-SWIPES

DISINFECTANT  
VIRUCIDE\*  
CLEANER

**C-100A** Contents: 1 Towellette (Net wgt. 0.58 oz.) (16.5 gms.)

Cide-Swipes are pre-saturated wipes containing known anti-bacterial and antiviral agents. For use in medical, dental, home, school and institutional applications.

Active Ingredient  
Glutaraldehyde 0.24%  
Inert Ingredients\*\* 99.76%  
\*\*Does not include weight of dry towellette.

#### DIRECTIONS FOR USE:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Tear open protective wrap. Allow towel to unfold by holding and gently shaking. Thoroughly wipe surface for 60 seconds. Allow treated surface to remain wet for 3 minutes or let air dry. Each towel cleans and disinfects a surface area 40 times its size.

#### KEEP OUT OF REACH OF CHILDREN

##### CAUTION:

- May cause eye and skin irritation on contact. In case of contact with eye or skin, flush thoroughly with water. If irritation persists, contact a physician.
- Avoid contact with food.

##### CONTAINER DISPOSAL:

- Keep packaged towel in a dry area. Do not open until ready to use. Do not re-use towel. Place used towel in the trash container.

- Cide-Swipes are effective as a virucide against HIV-1 (AIDS Virus) for a 3 minute contact time and Poliovirus Type 1 for a 15 minute contact time on pre-cleaned, hard, nonporous surfaces.

See back panel for Special Instructions for cleaning and Decontamination Against HIV Contaminated surfaces.  
EPA Establishment No. 52831-NJ001 • EPA Registration No. 58085-2

ACCEPTED

MAY 30 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under  
EPA Reg. No. 56095-2

29/2

Kills HIV-1 on precleaned environmental surfaces/objects previously soiled with blood/body fluids in health care settings or other settings in which there is an expected likelihood of soiling on inanimate surfaces/objects with blood or other body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

**Special Instructions for Cleaning and Decontamination Against HIV of Surfaces or Objects Soiled with Blood or Body Fluids.**

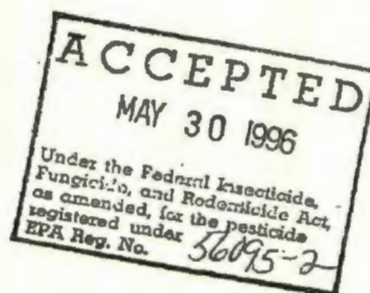
**Personal Protection:** When handling items soiled with blood or other body fluids, disposable latex gloves, gowns, surgical mask and eye protection are recommended.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

**Contact Time:** Cide-Swipes are effective as a virucide against HIV-1 (AIDS Virus) for a three minute contact time.

**Disposal of Infectious Material:** Blood and other body fluids should be autoclaved and disposed according to local regulations for infectious waste disposal.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to preclean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.







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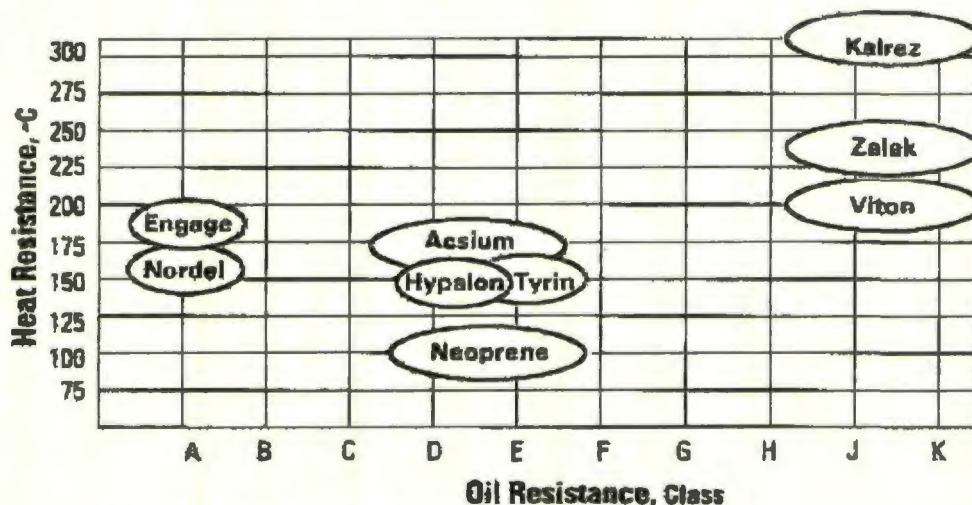
DuPont Dow Elastomers offers a wide variety of products ranging from thermoset rubber polymers used by the general rubber industry to high-performance fluoroelastomers used by the chemical processing and automotive industries.



### Our Objective:

Meeting customer needs with the broadest possible range of performance solutions.

Our expanded portfolio of general-purpose and specialty elastomers covers the performance spectrum. If you see a few gaps today, they are likely to be filled tomorrow as we focus resources on meeting customer needs.



To find out more about our products, click on the links below.

- **Acsium**® alkylated chlorosulfonated polyethylene
- **Engage**® polyolefin elastomers are tough but flexible, offering improvements in processing, impact modification, and applications such as wire and cable.
- **Hypalon**® chlorosulfonated polyethylene shows an advantage when exposed to high temperatures and oxidizing chemicals; it has excellent resistance to ozone and weathering. This accounts for its success in roofing, belting, and wire and cable.
- **Kalrez**® perfluoroelastomer parts are made by DuPont Dow Elastomers, and offer the utmost in heat (600°F/316°C) and chemical (1600 chemicals) resistance with ISO 9000 registration. Ideal for demanding chemical processing, semiconductor, aerospace, and oil and gas applications. Available in standard or custom shapes.
- **Neoprene** polychloroprene was the world's first synthetic elastomer, with oil resistance that still make it a top performer today in a myriad of applications including automotive, adhesives, construction, etc. Neoprene has worldwide

ISO 9000 registration.

- **Nordel®** IPa new generation of ethylene-propylene-diene terpolymers (EPDM) based on the proprietary INSITE™ catalyst and process technology.
- **Tyrin®** chlorinated polyethylene can be used either as thermoplastic or thermoset. Tyrin is flame-retardant, with excellent chemical and heat resistance.
- **Viton®** fluoroelastomer is the most specified fluoroelastomer, well known for its excellent (400°F/200°C) heat resistance. Viton offers excellent resistance to aggressive fuels and chemicals and has worldwide ISO 9000 registration.
- **Zaltek®** high performance seals are mid-range performance elastomeric seals with performance between Viton and Kalrez (480°F/250°C).

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Genuine Viton

Viton FreeFlow

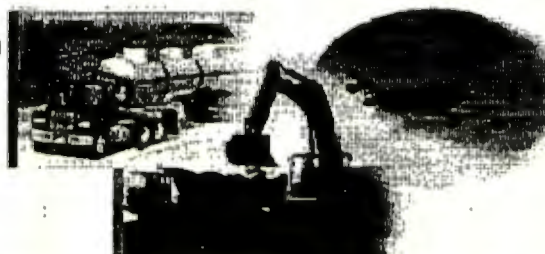
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**Viton page**

Viton<sup>®</sup> fluoroelastomer is the most specified fluoroelastomer, well known for its excellent (400°F/200°C) heat resistance. Viton offers excellent resistance to aggressive fuels and chemicals and has worldwide ISO 9000 registration.



We've developed many types of Viton to meet specific end-use and processing needs. There are differences between types of Viton in terms of chemical resistance and mechanical properties.

Whether your application is in automotive, chemical processing, or power generation selecting the type that best meets your needs is important to assure maximum performance. It isn't complicated and help is available from DuPont Dow Elastomers. The general purpose types differ primarily from the specialty types in chemical resistance. In the specialty family, the choice is among four types that are tailored for superior fluid resistance, low-temperature performance or combinations of these properties. In order to ensure product integrity and compliance to OSHA 1910.119, o seal and Viton Tracer helps guarantee that the parts you receive are made from genuine Viton from DuPont Dow Elastomers.

Our product comparison table explains the differences in product suitability.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date February 8, 2000		EPA Reg No./File Symbol 66171-T		Page 1 of 2	
Applicant's/Registrant's Name & Address Preserve International PO Box 3135, Turlock, CA 95380		Product Synergize			
Ingredient Glutaraldehyde, Alkyl(C12 67%, C14 25%, C16 7%, C18 1%) dimethyl benzyl ammonium Chloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Prod identity and compensation	44433701	Preserve International	own	
61-2	Des. of beg. materials & Proces	44433701	Preserve International	own	
61-3	Disc. of formation of impur.	44433701	Preserve International	own	
62-1	Preliminary analysis of product	44433703/4	Preserve International	own	Data Matrix
62-2	Certification of ingredient	44433703/4	Preserve International	own	
62-3	Analytical method	44433703/4	Preserve International	own	
63-2	Color	44433701	Preserve International	own	
63-3	Physical State	44433701	Preserve International	own	
63-4	Odor	44433701	Preserve International	own	
63-7	Bulk density	44433702	Preserve International	own	
63-8	Solubility	44433701	Preserve International	own	
63-12	pH	44433702	Preserve International	own	
63-18	Viscosity	44433702	Preserve International	own	
63-20	Corrosion Characteristics	44433701	Preserve International	own	
Signature 		Name and Title Gary Gauran President		Date 2/8/00	





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DATA MATRIX

Date February 8, 2000		EPA Reg No./File Symbol 66171-T		Page 2 of 2	
Applicant's/Registrant's Name & Address Preserve International PO Box 3135, Turlock, CA 95380		Product Synergize			
Ingredient Alkyl (C12,67%,C14,25%,C16,7%,C18,1%) dimethyl benzyl ammonium chloride, Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-1	Acute oral LD 50	44569501	Preserve International	OWN	
81-2	Acute Dermal LD 50	44569502	Preserve International	OWN	
81-3	Acute Inhalation	44569505	Preserve International	OWN	
81-4	Primary Eye irritation	44569504	Preserve International	OWN	
81-5	Primary dermal irritation	44569503	Preserve International	OWN	
81-6	Dermal Sensitization	44569506	Preserve International	OWN	
91-2	AOAC Use Dilution - P. aeruginosa	44433705/6	Preserve International	OWN	
91-2	AOAC Use Dilution - S. aureus	44433705/6	Preserve International	OWN	
91-2	AOAC Use Dilution - S. choleraesuis	44433705/6	Preserve International	OWN	
Signature 			Name and Title Gary G. Gagne, President		Date 8/28/99



Office of Gary E. Gaumer 336 Broadway, Suite 18, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • Email: GEGaumer@Shocking.com

February 16, 2000

Ms. Tracy Lantz  
Regulatory Management Branch I  
Anti-Microbial Division (7510C)  
USEPA  
401 M Street SW  
Washington, DC 20460

Dear Ms. Lantz

In response to your January 25, 2000 letter, please find the following changes:

**Confidential Statement of Formula:**

- 1) Completed. Please see CSF
- 2) Completed. Please see Alternate Suppliers List
- 3) Completed. Please see CSF
- 4) Completed. Please see CSF
- 5) Completed. Please see CSF
- 6) Completed. Please see CSF
- 7) Completed. Please see CSF

**Data Compensation:**

Please see corrected data Compensation Sheet

**Label:**

- 1) Completed. Please see revised label.
- 2) As per our conference call, We have amended the section
- 3) Completed. Please see revised label.
- 4) Completed. Please see revised label.
- 5) Completed. Please see revised label and Viton specification sheet.
- 6) Completed. Please see revised label.
- 7) As per our telephone conference, we have retained *Cleaner-Disinfectant* but removed *Deodorizer*.

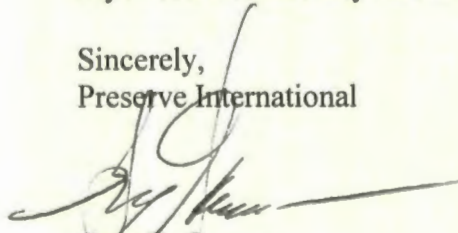


- 8) A: Completed. Please see revised label.  
B: Completed. Please see revised label.  
C: Completed. Please see revised label.  
D: Completed. Please see revised label.  
E: As per our telephone conference, we have revised Vehicle directions as directed.  
F: We have removed claim at this time
- 9) Completed. Please see revised label.  
10) Completed. Please see revised label.  
11) Completed. Please see revised label.  
12) Completed. Please see revised label.

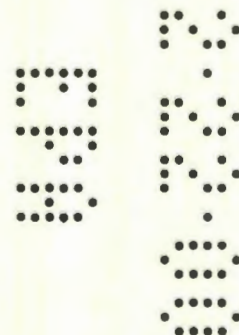
Enclosed you will find five copies of the requested label and one public file copy of the data matrix and one copy of the confidential data matrix.

If you should have any further questions, please feel free to contact me.

Sincerely,  
Preserve International



Gary E. Gaumer  
President



**FQPA**

Reviewer ID

Submission No.

Data Package No.

T. Lantz  
5569443

CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-T PM 31

Action Code 187

*old chemical*

☒ 10 Descriptor (Amend/Resubmissions only)

☒ 5 Intrastate Call-in ☐ (Y) Yes ☐ (N) No

☒ 15 Child-resistant Packaging

☐ (C) Certification

☐ (S) Service Person

☐ (R) Non-residential Use Only

☐ (N) Not-Applicable

*Minor change*

☒ 20 Registration Type:

☐ (1) Conditional

☐ (2) Unconditional

☒ 25 Proposed Classification: ☒ 30 Final Classification:

☐ (R) Restricted

☐ (R) Restricted

☐ (G) General

☐ (N) Not Classified

*Due Date: 1/20/00*

*120 days*

☒ 35 Date on Application:

0 9 22 9 9  
MO DAY YR

☒ 04 EPA Received Date:

09 28 9 9  
MO DAY YR

☒ 40 Date Received by PM

1 0 27 9 9  
MO DAY YR

☒ 80 Method of Support:

☐ (1) Cite-All

☐ (6) Owner Submission

☐ (4) Not Applicable

☐ (7) Total Submission

☐ (5) Not Submitted

☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFGB

DATE  
SENT

DUE  
DATE

DATE  
RETURNED

RESPONSE  
CODE

RESPONSE  
DATE


☒ 115 FINAL Response ACTION Code 13

☒ 125 Response

JAN 25 2000

MO DAY YR

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes

☐ (N) No



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
336 Broadway, Suite 18  
Chico, CA 95928

JAN 25 2000

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA File Symbol: 66171-T  
New Product Application  
Your Application for Registration Dated: September 22, 1999  
EPA Received Date: September 28, 1999

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, to register 66171-T is unacceptable.

**Confidential Statement of Formula:**

The submitted Confidential Statement of Formula (CSF) dated 9/20/99 is unacceptable. The following comments apply to your CSF.

- 1) Your Confidential Statement of Formula (CSF) must be submitted on the enclosed form 8570-4. If there is insufficient space on the CSF to list the suppliers for your ingredients then an addendum should be attached to this form.
- 2) The address must be supplied for each of the following companies: [REDACTED]  
[REDACTED]
- 3) Your CSF must list the total weight of the formulation.
- 4) Your CSF should be revised such that the nominal concentrations and the percent by weight for the active and inert ingredients which are not 100% solutions be listed on a separate lines in the box for section 13b. For example: [REDACTED] by weight with a nominal concentration of 7.0 (n=7.0).

CONCURRENCES							
SYMBOL	7S10C						
SURNAME	J. L. [REDACTED]						
DATE	1/25/00						259



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

5) Revise the CSF to specify that both active ingredients [REDACTED] by listing this percentage next to the name of each of these ingredients.

6) Correct the CAS number for [REDACTED]

7) Correct the percent by weight of [REDACTED]  
[REDACTED] Revise the CSF accordingly.

**Data Compensation:**

The submitted Data Matrix is product specific. Revise the Data Matrix such that both active ingredients in your proposed product are listed under "Ingredient." You do not need a separate page for each ingredient. Correct the following MRID#s: 4433701 should read 44433701 and 4443701 should read 44433701. You may list more than one MRID for a data requirement when necessary. In addition you must submit a Public File Copy of this matrix as was originally requested in the Agency letter of 6/1/99. Refer to PR Notice 98-5 for the appropriate format.

**Label comments:**

1) Revise the Ingredients Statement by deleting the extra commas as follows:

*Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium chloride.*

2) Revise the first paragraph of this label to read as follows:

*"Synergize cleaner-disinfectant-deodorant is specifically formulated for industrial use in the following Animal and Poultry Housing Facilities: Turkey, Breeder, Grow Out, Fryer, Layer, and Hatcheries as well as the following equipment in Swine Premise: Waterers, Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns, Nurseries, Blocks, Creep Area, and Chutes. This product is also for use in Farm Premise, Equine Facilities, Veal Barns, Ratites Facilities (Ostrich and Emu Facilities), Calf Pens and associated Farm Vehicles."*

Revise the second section under "Directions for Use" in the same manner.

The word "synergistic" is not acceptable since it implies heightened efficacy. You may not imply that this product is superior to any other disinfectant on the market as per PR Notice 91-7.

3) In the first paragraph on the second page, delete the phrases "with synergistic activity" and "excellent activity" which imply heightened efficacy as per PR Notice 91-7.

4) In the same paragraph replace the phrase "moderate levels of organic matter" with the phrase "5% serum". In addition, reword as follows: "...provides effective cleaning and disinfecting in one operation..." with "...provides effective *disinfecting and cleaning* in one operation..."

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

5) In the second paragraph on the second page delete the site "untreated wood" since this would be considered a porous surface. In addition, give additional information on your label as to what is meant by the term "viton." Is this a trade name for something?

6) On the second page immediately following the heading "Directions for Use" revise the statement "Not for use on feed, food, or food contact surfaces." to read "*Not for use on feed, food, or litter.*"

7) Regardless of whether you have provided data which demonstrates that your product is effective in the presence of 5% organic soil, if your label states that this product is a cleaner and deodorant you must include directions for cleaning and deodorizing. Alternatively, all references to "cleaner" and "deodorant" and any similar words must be deleted from the label.

8) Make the following revision in the section following the subheading: "Use Directions"

A) Delete statement #1.

B) Revise the beginning of statement #2 to read as follows: "To disinfectant hard non-porous surfaces of walls, floors, tables, sinks, refrigerators, restroom fixtures telephone booths, and garbage cans in non-animal areas associated with the sites noted above apply a solution of ½ ounce Synergize per gallon of water (dilute 1:256) to precleaned surfaces. Apply..."

If you intend for this product to be used on toilet bowls you must provide specific instructions for this surface.

You must delete the surface "stoves" since it would not be associated with any of the sites listed on your label. In addition the surface "bird cages" is not included here since the directions for this surface are included on the next page of your label. Provide separate directions for use in kennels which advise that all animals be removed from the area when using this product and instructions for cleaning of food and water dishes in a manner similar to that for farm premise.

C) Delete statements #3 and #4 since directions for these sites are included on the next page in a more detailed manner.

D) Revise the Boot/Shoe Wash section to indicate "Scrape waterproof shoes or boots and place..." and revise the contact time to 10 minutes since this product has been shown to be efficacious as a disinfectant.

E) Identify what parts of a vehicle may be disinfected. Is your product intended to treat the wheels or other additional surfaces?

CONCURRENCES							
SYMBOL							
SURNAME							
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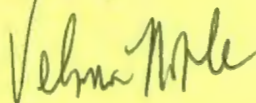


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

- F) The Agency is unable to establish that there are any similar products on the market which have been approved for "Thermal fogging." Delete this use from your label or provide the Agency with a reference to a similar product which has been registered with this use.
- 9) Make the following revisions to the directions for use in swine producing facilities so that this section will be in agreement with DIS/TSS-18. Revise item #1 to include "...from the premise, *vehicles, and enclosures.*" Revise item #3 by deleting "When possible". Revise item #5 as follows: "*Thoroughly saturate all surfaces with a solution of 1/2 oz. Synergize per gallon of water (1:256), using conventional spraying methods.*" Do not include information regarding the contact time here since it is repeated in item #6. In addition, delete item #8.
- 10) Make the following revisions to the directions for use in farm premise, equine facilities, veal barns, ratites facilities, calf pens, and vehicles so that this section will be in agreement with DIS/TSS-18. The statement included in item #5 must precede item #4. Revise item #6 as follows: "*Thoroughly saturate all surfaces with a solution of 1/2 oz. Synergize...*" In addition, delete item #8.
- 11) Make the following revisions to the directions for use in poultry houses so that this section will be in agreement with DIS/TSS-19. Revise item #2 the begin "Remove all *litter and droppings...*"
- 12) Revise the "Precautionary Statements" such that the signal word "DANGER" is on a separate line.

This letter does not constitute registration and this product cannot be lawfully marketed until it is registered. The Agency cannot complete its assessment of your product until the required information has been reviewed. Submit 5 copies of the revised labeling and address each item listed previously. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure (CSF Form)

7510C.T.Lantz.1/21/99.66171-T1

CONCURRENCES

SYMBOL								
SURNAME								
DATE								262



# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

*Synergistic cleaner-disinfectant-deodorant specifically formulated for industrial or non-food, contact surfaces such as Animal and Poultry Housing (Turkey, Breeder, Grow Out, Fryer, Layer) Facilities, Hatcheries, Grow out and Brooder Facilities, and all other Poultry House related Equipment and all surfaces in the Hatchery Environment, Swine Premise Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nurseries, Blocks, Croup Area, and Chutes.*

Staphylococcus aureus A.T.C.C. 6538

Pseudomonas aeruginosa A.T.C.C. 15442

Salmonella choleraesuis A.T.C.C. 10708

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%

Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%

TOTAL .....100.00%

### KEEP OUT OF REACH OF CHILDREN

### ANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed, by storage and disposal.

#### PESTICIDE STORAGE:

Store away from heat. Do not transfer to another container. Do not reuse empty container.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Registration No.: 66171-

EPA Establishment No.: 66171-TN-001

 **PRESERVE**  
INTERNATIONAL  
Zephyr Cove, NV 89448

Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607

# SYNERGIZE DRAFT LABEL

July 26, 1999

Page 2

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner with synergistic activity. SYNERGIZE provides a broad spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing moderate levels of organic matter.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Registered for disinfecting and deodorizing hard non-porous surfaces. Not for use on feed, food or food contact surfaces.

SYNERGIZE is a Synergistic cleaner-disinfectant-deodorant specifically formulated for industrial or non-food, contact surfaces such as Animal and Poultry Housing (Turkey, Breeder, Grow Out, Fryer, Layer) Facilities, Hatcheries, Grow out and Breeder Facilities, and all other Poultry House related Equipment and all surfaces in the Hatchery Environment, Swine Premise Waterers and Feeders, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nurseries, Blocks, Creep Area, and Chutes.

## USE DIRECTIONS:

- 1) Registered for use on pre-cleaned hard, non-porous surfaces.
- 2) To disinfect, deodorize and clean walls, floors, tables, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.
- 3) To disinfect, deodorize and clean Animal and Poultry Housing (Turkey, Breeder, Grow Out, Fryer, Layer) Facilities, Hatcheries, Grow out and Breeder Facilities, and all other Poultry House related Equipment and all surfaces in the Hatchery Environment, prepare a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with a cloth sponge mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.
- 4) To disinfect, deodorize and clean Swine Premises including, Hauling Equipment, Dressing Plants, Loading Equipment, Farrowing Barns and Areas, Nurseries, Block, Creep Area, and Chutes prepare a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with a cloth sponge mop or mechanical coarse spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

**BOOT/SHOE WASH:** To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made disinfecting solution should be placed at all entrances to building. Scrape shoes and place in a 1/2 ounce Synergize per gallon water solution. Allow the solution to come in contact with the boot/shoe for at least 60 seconds. Change the disinfecting solution when solution becomes visibly dirty.

**VEHICLES:** Clean all vehicles using a solution of 1/2 ounce Synergize per gallon of water. Apply using a high pressure or coarse spray system. Leave all treated surfaces exposed to solution for 10 minutes, or more and allow to air dry. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

## THERMAL FOGGING:

Fogging is to be used as an adjunct prior to acceptable manual cleaning and disinfecting of room surfaces. Close room off so fog is confined to room to be treated. Mix one (1) part SYNERGIZE to five (5) parts water. (1/2 gallon SYNERGIZE to 2.5 gallons of water.) Insert the nozzle of the fogger through a suitable opening into the room. With the setting on maximum output, fog for one (1) minute to reach 4,000 cubic feet of space in the room with the thermal fogger. Do not allow people to breathe or contact the fog or to enter the room until the fog has completely settled or exhausted. Normally this is 1-4 hours in this environment (less time if area is well ventilated). All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

\*NOTE: The fog generated by this method is very irritating to eyes, skin, and mucous membranes. Under no circumstances should a room or building be entered by anyone until the fog has completely settled, normally 1-4 hours after fogging. If the building or room must be entered, then the individuals entering the building or room must wear a self contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants.



# SYNERGIZE DRAFT LABEL

July 26, 1999

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
- 6) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 7) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 8) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 9) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.
- 10) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

- 1) Do not use in milking stalls, milking parlors, or milk houses.
- 2) Remove all animals and feed from the premises, vehicles, and enclosures.
- 3) Remove all manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Empty all troughs, racks, and other feeding and watering appliances.
- 6) Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
- 7) Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- 8) Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatchery, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
- 9) Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.
- 10) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

## DIRECTIONS FOR USE IN POULTRY HOUSE:

- 1) Remove all poultry and feeds from premises, trucks, coops, and crates.
- 2) Remove all droppings from floors, walls and surfaces of facilities occupied or traversed by poultry.
- 3) Empty all troughs, racks, and other feeding and watering appliances.
- 4) Thoroughly clean all surfaces with soap or detergent and rinse with water.
- 5) Saturate surfaces with 1/2 ounce SYNERGIZE per gallon water (dil 1:256) for a period of 10 minutes.
- 6) Ventilate building, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried.
- 7) Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. For handling activities during thermofogging exposures, wear either a respirator with organic vapor (OV) cartridge, or a canister with any N, P, R, or HE prefilter. For all other exposures, wear a dust/mist/filtration respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

## STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**IF SWALLOWED:** Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, eggwhites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons

PRODUCT REPORT  
SELECTED CRITERIA

Company Number: All

PC Code: 069175 Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12,  
25%C14, 7%C16, 1%C18)043901 From Pct. - 23.0000 To Pct. - 30.0000  
Glutaral

From Pct. - 5.0000 To Pct. - 10.0000

Site Code: All

Pest Code: All

Product Mngr: All

Form Code: All

Product Type: All

Toxicity: All

Prod Case: SECTION 3

Prod Status: ACTIVE

Restricted Use: ALL PRODUCTS

From Date: / /

To Date: / /

Total Products: 3

1) No similar products

2) Is glutaraldehyde used for fogging? Marshall  
May it be sprayed? No  
A) Appropriate instructions we haven't allowed  
this useor

B) exposure concerns



## PRODUCT REPORT

## ACTIVE PRODUCT REGISTRATIONS for SECTION 3

REGISTRANT REGISTRANT NAME AND ADDRESS

=====

=====

003090

SANITIZED INC

PO Box 2211

57 LITCHFIELD ROAD

NEW PRESTON, CT 06777

REGISTRATION PRODUCT NAME

=====

=====

003090-00123 SANITIZED BRAND RB 475

STATUS: A Active  
APPROVAL DATE: 01/09/63  
LABEL DATE: 95/10  
PROD MNGR: 31 Velma Noble  
TOXICITY: 2 Warning  
FORM CODE: 16 Ready-to-Use Solution  
RESTRICT USE: NO  
PROD TYPE: 24 Bacteriostat  
PROD TYPE: 31 Fungicide

## ACTIVE INGREDIENT INFORMATION

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069175 25.0000 Alkyl\* dimethyl benzyl ammonium chloride  
\*(67%C12, 25%C14, 7%C16, 1%C18)  
083001 05.0000 Bis(tributyltin) oxide

REGISTRANT REGISTRANT NAME AND ADDRESS

=====

=====

003876

BETZDEARBORN INC (ATTN: KEVIN MANNING)

4636 SOMERTON ROAD

TREVOSSE, PA 190536783

REGISTRATION PRODUCT NAME

=====

=====

003876-00157 DEARCIDE 792

STATUS: A Active  
APPROVAL DATE: 04/10/97  
LABEL DATE: 99/06  
PROD MNGR: 33 Marshall Swindell  
TOXICITY: 1 Danger  
FORM CODE: 15 Soluble Concentrate  
RESTRICT USE: NO  
PROD TYPE: 28 Microbicide/Microbistat  
PROD TYPE: 41 Algaecide

## ACTIVE INGREDIENT INFORMATION

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043901 07.5000 Glutaral  
107103 01.4100 5-Chloro-2-methyl-3(2H)-isothiazolone

## PRODUCT REPORT

## ACTIVE PRODUCT REGISTRATIONS for SECTION 3

REGISTRANT REGISTRANT NAME AND ADDRESS

=====

003876 (Cont.)

REGISTRATION PRODUCT NAME

=====

003876-00157 (Cont.)

ACTIVE INGREDIENT INFORMATION (Cont.)

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107104 00.4700 2-Methyl-3(2H)-isothiazolone

REGISTRANT REGISTRANT NAME AND ADDRESS

=====

059839 OBF INDUSTRIES INC  
2719 CURTISS ST  
DOWNERS GROVE, IL 60515

REGISTRATION PRODUCT NAME

=====

059839-00001 VITAL-CIDE/PREMICIDE

STATUS: A Active  
APPROVAL DATE: 03/07/97  
LABEL DATE: 97/09  
PROD MNGR: 33 Marshall Swindell  
TOXICITY: 1 Danger  
FORM CODE: 09 Microencapsulated  
RESTRICT USE: NO  
PROD TYPE: 23 Sanitizer

ACTIVE INGREDIENT INFORMATION

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043901 09.6100 Glutaral



## ACTIVE PRODUCT LIST BY NAME

FOR STRING 'SYNERGIZE'

IDENT. NO.	STATUS	PRODUCT NAME
773-84	A	SYNERGIZED 5% PERMETHRIN POUR-ON
1021-923	A	SYNERGIZED PYRETHRIN HOME AND INDUSTRIAL SPRAY, F-6631
1021-924	A	SYNERGIZED PYRETHRIN SPRAY FOR MILLS, FOOD PLANTS & HOME 6632
1021-1513	A	SYNERGIZED PYRETHRIN INDUSTRIAL SPRAY F-7353

773-84

1021-923

1021-924

1021-1513

Dennis "Synergize" - name OK

change to "Synergize is a..."

do not make a claim which  
implies heightened efficacy.Cannot imply that this is better than  
other products: remove "Synergistic..."

one step disinfection, cleaning + deodorizing? - ask efficacy.

must still have separate cleaning + deodorizing  
instructions or delete claims!!

01/24/00

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

773-84 SYNERGIZED 5% PERMETHRIN POUR-ON

PC CODE	PERCENT	CHEMICAL NAME
67501	05.0000	(Butylcarbityl) (6-propylpiperonyl) ether 80% and related compounds 20%
109701	05.0000	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester (9CI)



01/24/00

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

1021-923 SYNERGIZED PYRETHRIN HOME AND INDUSTRIAL SPRAY, F-6631

PC CODE	PERCENT	CHEMICAL NAME
57001	00.2500	N-Octyl bicycloheptene dicarboximide
67501	00.1500	(Butylcarbityl) (6-propylpiperonyl) ether 80% and related compounds 20%
69001	00.0750	Pyrethrins

## Product Formulation Data

1021-924 SYNERGIZED PYRETHRIN SPRAY FOR MILLS, FOOD PLANTS &amp; HOME 6632

PC CODE	PERCENT	CHEMICAL NAME
57001	00.3330	N-Octyl bicycloheptene dicarboximide
67501	00.2000	(Butylcarbityl) (6-propylpiperonyl) ether 80% and related compounds 20%
69001	00.1000	Pyrethrins



01/24/00

REFERENCE FILES SYSTEM

PAGE 1

Product Formulation Data

1021-1513 SYNERGIZED PYRETHRIN INDUSTRIAL SPRAY F-7353

PC CODE	PERCENT	CHEMICAL NAME
57001	01.6700	N-Octyl bicycloheptene dicarboximide
67501	01.0000	(Butylcarbityl) (6-propylpiperonyl) ether 80% and related compounds 20%
69001	00.5000	Pyrethrins



and kerosine; soluble in acetone and dimethylformamide.

Hazard: May be toxic.

Use: Herbicide.

"Swift's Technical Protein Colloids."<sup>1132</sup> Trademark for a series of colloids whose molecular weight is in the range of 10,000 and up. Used as emulsifiers, dispersing agents, foamers, chelating agents, buffers, binders, flocculants, coatings and adhesives.

"Sylfat."<sup>1130</sup> Trademark for high-purity tall oil fatty acids used in protective coatings, soaps, detergents, disinfectants, intermediates, and flotation chemicals.

"Sylflex."<sup>1140</sup> Trademark for compositions used in the preparation of leather to impart permanent water repellence.

"Sylgard."<sup>1140</sup> Trademark for a series of silicone resin encapsula its used in electronic assemblies.

"Sylkyd."<sup>1140</sup> Trademark for organosiloxo compositions for use as intermediates in the production of resins and formulating varnishes, paints, and enamels.

"Sylmer."<sup>1140</sup> Trademark for silicone compositions used in the finishing textile fabrics, and in the preparation and treatment of leather to impart permanent water repellence.

"Syl-off."<sup>1140</sup> Trademark for a series of stick-proof silicone coatings for paper. Coatings are unaffected by melts up to 275°F.

"Sylloid."<sup>1141</sup> Trademark for a series of micron-sized silicas. Used as flattening agents, lacquer, baking finishes, inks, paper reproduction, adhesives, pharmaceuticals, insulation.

"Sylvaloy."<sup>1155</sup> Trademark for an alloy composed of nickel, 97.0%; silicon, 3.0%. Properties: M.p. 1420°C; sp. gr. 8.61; tensile strength at 20°C, 75,000 psi. Used in electron tube materials.

"Sylvamix."<sup>1190</sup> Trademark for an internal additive for concrete masonry. A noncorrosive, nonflammable resin derivative of tall oil, developed principally to reduce water absorption, improve surface texture and inhibit efflorescence in all types of concrete masonry units and in mortar joints.

"Sylvaros."<sup>1190</sup> Trademark for high purity tall oil rosins used in sizing of paper and manufacture of resins for protective coatings and food containers.

"Sylvatal."<sup>1190</sup> Trademark for a refined tall oil.

sylvic acid. See abietic acid.

sylvite (sylvine) KCl. A natural potassium chloride. Contains about 43% potassium chloride, 57% sodium chloride, sometimes with up to 0.26% bromide.

Properties: Colorless or white, bluish or reddish in color; streak, white; vitreous luster. Resembles rock salt in appearance. Sp. gr. 1.97-1.99; Mohs hardness 2.

Occurrence: West Texas; New Mexico; Europe. Use: Major source of potassium compounds in the United States; used for fertilizers.

sym-. Abb. eviation for symmetrical. A prefix denoting the structure of organic compounds in which substituents are disposed symmetrically with respect

"Symmetrel"<sup>1128</sup> (amantadine hydrochloride). Trademark for a synthetic antiviral drug specific for A<sub>2</sub> type virus infection (one type of Asian flu). It is taken orally, and acts by preventing the virus from entering cells. It is inactive against B type viruses.

"Sympatol" Tartrate.<sup>1132</sup> Trademark for synephrine tartrate.

synaptase. See emulsin.

"Synasol."<sup>1114</sup> Trademark for solvent composed of 100 gal of S.D. 1 ethanol denatured with 1 gal of methyl isobutyl ketone, 1 gal of ethyl acetate (87%), and 1 gal of aviation gasoline.

Properties of anhydrous grade: Sp. gr. 0.7900-0.7940 at 20/20°C; b.p. (760mm) 74.5°C-79.5°C; flash point 55°F.

Properties of 190 proof grade: Sp. gr. 0.8095-0.8135 (20/20°C); b.p. 74.5-79.5°C (760 mm); flash point 55°F.

Grades: Anhydrous and 190 proof.

Containers: 1-gal can; 5- and 55-gal drums; tank cars up to 10,000 gal.

Hazard: Flammable, dangerous fire risk. Moderately toxic by ingestion.

Uses: Wherever an alcohol-type solvent is required, except for anti-freeze, where its use is prohibited by the Bureau of Internal Revenue.

Shipping regulations: (ICC, CG, IATA) Red label.

"Syncurine."<sup>1101</sup> Trademark for decamethonium bromide.

syndet. Abbreviated form for synthetic detergent. See detergent.

syndiotactic. A type of polymer molecule in which groups of atoms that are not part of the backbone structure are located in some symmetrical and recurring fashion above and below the atoms in the backbone chain, when the latter are arranged so as to be in a single plane. See polymer, stereospecific.

"Synektan."<sup>1100</sup> Trademark for a series of synthetic tanning materials.

"NCRP." A chrome complex of an aromatic sulfonic acid condensation product.

"NPP." A sulfonated phenol-formaldehyde condensate.

"O-230." A sulfonated phenolic replacement tan.

synephrine tartrate (para-methylaminoethanolphenol tartrate; 1-(para-hydroxyphenyl)-2-methylaminoethanol tartrate)

(HOC<sub>6</sub>H<sub>4</sub>CHOHCH<sub>2</sub>NHCH<sub>3</sub>)<sub>2</sub>C<sub>4</sub>H<sub>8</sub>O<sub>6</sub>. Properties: White crystals; freely soluble in water and alcohol; m.p. 182-85°C.

Use: Medicine.

syneresis. The contraction of a gel on standing, with exudation of liquid. The separation of serum from a blood clot, or of the whey in milk souring or cheese making are examples.

synergism. A chemical phenomenon in which the effect of two active components of a mixture is more than additive, i.e., it is greater than the equivalent volume or concentration of either component alone. A substance that induces this result when added to another substance is called a synergist.

"Synkamin."<sup>1130</sup> Trademark for 4-amino-2-methyl-1-

Containers: 100 and 300 lb. drums; 55 gal. drums. Uses: Continuous conditioning and batch washing of paper machine felts. Paper mill system boil-outs. Deinking of secondary fiber.

"Synotol."<sup>1155</sup> Trademark for a series of alkanolamides of fatty acids. Used as foam builders, viscosity improvers, wetting agents, detergents, and opacifiers.

"Synpol." Trademark for a varied group of synthetic rubber polymers including all types of compounded SBR rubbers, emulsion polybutadiene rubbers, carbon black masterbatches, oil-extended rubbers, etc. The grades are specifically compounded for a broad range of special applications.

syntan. A synthetic organic tanning material made from phenolsulfonic acids and formaldehyde. Used for both chrome and vegetable tanned leathers. See also tanning.

"Synthane."<sup>1157</sup> Trademark for a hard, dense thermosetting plastic made by applying heat and pressure to layers of cellulose paper, asbestos paper, cotton fabric, glass fabric or mat and a resin such as phenolic, melamine, silicone or epoxy.

"Syntharol."<sup>1135</sup> Trademark for blends of lubricants and binders used as warp size additions.

"Synthe-Copal."<sup>1138</sup> Trademark for pure rosin ester gums.

"Synthemul."<sup>1138</sup> Trademark for acrylic and alkyd emulsions.

"Synthenol."<sup>1154</sup> Trademark for a series of dehydrated castor oils with fast, controllable rate of bodying, excellent color retention, and water resistance.

Uses: Varnishes, enamels, house paints.

synthesis. The opposite of analysis. In organic chemistry, creation in the laboratory of a substance which may either duplicate a natural material (e.g., indigo, rubber) or be a unique material not found in nature, (e.g., nylon). A catalyst is usually required, and numerous intermediate compounds are often formed during the process. The synthesis of rubber, plastics, dyes, fibers, and drugs since 1915 has been an outstanding achievement of organic research. See also semisynthetic.

synthesis gas. Any mixture of carbon monoxide and hydrogen, usually intended to be used for catalytic conversion to ammonia, hydrocarbons, alcohols or other organic compounds. The hydrogen and carbon monoxide may be in various proportions, and production may be by high temperature action of steam on carbon or natural gas, by partial oxidation of natural gas, or by other processes. See water gas, and Oxo process.

"Synthetic Detergent Sixty-Six EP."<sup>1147</sup> Trademark for a liquid sodium lauryl sulfate having an extremely low inorganic salt content and a sharply reduced unsulfated alcohol content. Manufactured

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# DISINFECTION, STERILIZATION, and PRESERVATION

fourth edition

Seymour S. Block

## GLUTARALDEHYDE

E.M. Scott and S.P. Gorman

Glutaraldehyde is a powerful biocidal agent having the advantage of continued activity in the presence of organic material. It has an established reputation for the chemosterilization of equipment that cannot be sterilized by traditional physical methods. The first indications of its antimicrobial potential came from a survey of saturated dialdehydes by Pepper and Lieberman in 1962 in their search for an efficient substitute for formaldehyde. In the following year Stonehill et al. (1963) advocated that a suitably alkalinated solution of glutaraldehyde was rapidly sporicidal, and toward the end of 1963, a glutaraldehyde formulation was marketed for use as a chemosteriliser.

The continuing interest in the compound is reflected in the numerous publications, even in recent years, on such basic aspects as its structure, activity, and mechanism of action. Particular emphasis is currently being applied to the toxicology of glutaraldehyde while much attention continues to be focused on increasing the range of applications and improvements in formulation of the compound. These various areas are discussed within this chapter in relation to the antimicrobial properties of glutaraldehyde.

## CHEMICAL PROPERTIES

## Structure

Glutaraldehyde (1,5-pentanedial) appears in the official monographs of the United States and British pharmacopoeias as Glutaral Concentrate and Strong Glutaraldehyde Solution, respectively. Other synonyms used are Glutaric Dialdehyde and Glutardialdehyde. It is usually supplied as an amber-colored liquid of acidic pH. The saturated 5-carbon dialdehyde was first synthesized by Harries and Tank (1908). As with other aldehydes, the two aldehyde groups react readily under suitable conditions, particularly with proteins (Bowes and Cater, 1966; Hopwood et al., 1970).

A single absorption maximum at 280 nm is exhibited by pure glutaraldehyde, though a second maximum at

235 nm is normally observed in commercial solutions because of the presence of impurities of polymers (Anderson, 1967; Hardy et al., 1969). The impurity may be removed by several methods (Pease, 1964; Fahimi and Drochmans, 1965; Anderson, 1967; Hopwood, 1972; Dijk et al., 1985). Appearance of the 235-nm absorbing polymer in pure solutions depends on storage temperature (Gillett and Gull, 1972; Stibenz, 1973) and the rate of the polymerization depends on temperature and pH (Rasmussen and Albrechtsen, 1974; Gorman and Scott, 1979a).

The ratio of monomer to polymer and type of polymer present have been the subjects of numerous publications (Gorman et al., 1980). Essentially it is considered that the presence of free aldehyde groups is a prerequisite for good biocidal activity. Schemes depicting glutaraldehyde polymerization in both acid and alkaline aqueous solution are outlined in Figures 34-1 and 34-2 (Gorman and Scott, 1980). At acid pH glutaraldehyde is in equilibrium with its cyclic hemiacetal and polymers of the cyclic hemiacetal, as proposed by Hardy et al. (1969, 1976a). Increase in temperature produces more free aldehyde in acid solution, whereas in alkaline solution loss of reactive aldehyde groups is possible. When pH is raised to the neutral or basic range the dialdehyde undergoes an aldol condensation with itself followed by dehydration to generate  $\alpha,\beta$  unsaturated aldehyde polymers. Progression to the higher polymeric form (Figure 34-2b) can also occur with increased time and pH. As the pH is raised,  $n$  increases in value until the polymer precipitates from solution. Loss of reactive aldehyde groups could therefore be responsible for the rapid loss of biocidal activity of alkaline solutions on storage. A study by Margel and Rembaum (1980) into the structure of the solid aldol condensation product showed that polymerization of glutaraldehyde under basic conditions results in the formation of water-soluble and insoluble polymers, and that these polymers contain unconjugated aldehyde, conjugated aldehyde, hydroxyl, and carboxyl groups. A number of other studies, under the direction



1975; Relyveld, 1977) and filtering with washing (Miner et al., 1977).

The methods and problems of biocidal testing require consideration, because they may influence claims for glutaraldehyde activity (see section on mycobacteria). The AOAC sporicidal test is well controlled and established as a standard procedure, although in the past this method has given variable results (Starke et al., 1975). Survival curves of treated spore suspensions provide more information on the kinetics of sporicidal action, but are also subject to wide variation. Many of the variables in such tests with glutaraldehyde were investigated by Forsyth (1975), who suggested improvements in the basic method. The problems of spore resistance as affected by method of preparation and recovery of spores after treatment would appear to warrant more attention. This aspect was illustrated by Hodges et al. (1980) using chemically defined and complex media for the production of *Bacillus subtilis* spores. The spore crops thus obtained differed in their resistance to glutaraldehyde. Reference to Table 34-7 allows comparison of glutaraldehyde (pH 7.9) sporicidal activity against spores and spore forms produced on solid medium and defined liquid medium in our laboratories. Significant differences in activity are observed (Gorman et al., 1984b). We have also shown that a progressive development of resistance to glutaraldehyde occurs on prolonged incubation of sporulating *B. subtilis* in sporulation medium (Gorman et al., 1984c). A time of 72 min was required for 2% glutaraldehyde to effect a 90% kill of 1-day *B. subtilis* spores, compared to 94 min required for 14-day spores.

#### Novel Formulations

Since the expiration of the original patent on the sterilizing action of alkalinated glutaraldehyde, many new products have been introduced, having equivalent activity and stability to the original patented product. In addition, in an attempt to improve the stability of activated glutaraldehyde, some preparations were formulated at lower alkaline pH values or at acid pH. This has the effect of reducing the rate of polymerization of glutaraldehyde and thus prolonging shelf-life. Microbiologic activity was maintained usually by the inclusion of a surfactant in the formulation. Jacobs (1986) described a glutaraldehyde composition containing an activator system that does not precipitate salts when diluted with hard water. This makes it possible to formulate solutions with an increased concentration of active glutaraldehyde to be diluted at the point of use without the attendant possibility of precipitate being deposited on sterilized surgical instruments. In a report by Babb et al. (1980), nine glutaraldehyde products were compared. All were effective against spores in suspension in 3 hours or less, but the acid glutaraldehyde preparations tested were less effective than alkaline ones, particularly against dried spores, and they also tended to be more corrosive.

Numerous attempts have been made to potentiate the antimicrobial activity of glutaraldehyde solutions. These have frequently involved addition of surface active

agents: cationic (Stonehill, 1966), nonionic (Sidwell et al., 1970; Wilkoff et al., 1971), nonionic ethoxylates of isomeric linear alcohols (Boucher, 1971), amphoteric (Dick and Rombi, 1977), and anionic (Gorman and Scott, 1979a). Addition of inorganic cations will further increase activity (Gorman and Scott, 1979b), as does the use of ultrasonic energy (Sierra and Boucher, 1971). Addition of a second antimicrobial agent to provide a synergistic effect has also been reported. In this respect, addition of phenol to glutaraldehyde has proved to be beneficial (Schattner, 1978; Leach, 1981). Reports on other novel glutaraldehyde formulations have been reviewed by Gorman et al. (1980).

#### Toxicology

The use of glutaraldehyde for the chemical sterilization of heat-sensitive equipment is now widespread. This type of specialized use brings with it possible risks of toxic reactions occurring (1) to the individual handling the equipment during the disinfecting or sterilizing process and (2) to the patient exposed to equipment treated with glutaraldehyde—in some cases this may involve contact with the blood stream.

With regard to individuals being exposed to glutaraldehyde during handling of equipment, Axon et al. (1981), using results of a questionnaire, reported that 37% of endoscopy units using glutaraldehyde for disinfection reported health problems among their staff that were attributed to glutaraldehyde use. Other reports of occupational toxicity refer to small numbers of individuals (Sanderson and Cronin, 1968; Lyon, 1971; Hansen et al., 1983; Benson, 1984). Corrado et al. (1986) used provocation testing to determine allergic reactions in nurses who reported respiratory symptoms that they attributed to exposure to glutaraldehyde. Two of the four patients investigated had a confirmed reaction to glutaraldehyde. Estimates of percutaneous penetration of topically applied glutaraldehyde (10% aqueous solution) indicated that although no penetration of thick stratum corneum could be detected, approximately 3% penetrated epidermis and 3 to 13.8% penetration of thin stratum corneum occurred (Reifenrath et al., 1985). Irritation and one case of sensitization also resulted from application of glutaraldehyde to areas of thin stratum corneum. Evidence for a dose-dependent contact hypersensitivity response to glutaraldehyde was demonstrated in guinea pigs and mice (Stern et al., 1989). Inhalation is severely toxic when high-aldehyde concentrations are allowed to evaporate in a closed system. Meltzer and Henkin (1977) stated that single inhalations of concentrated vapors (25 and 50% glutaraldehyde) by rats for 6 to 8 hours did not kill any of the exposed animals.

It is important to reduce the risks of glutaraldehyde toxicity to staff by the use of clearly defined handling procedures such as wearing of rubber gloves (provided they are resistant to organic chemicals) and safety goggles. Siting of equipment in hoods or cabinets with exhaust is also necessary to prevent vapor inhalation. These



## DESCRIPTION

TEKTROL is a synthetic detergent with broad spectrum kill of gram positive and gram negative microorganisms, provides effective cleaning and disinfecting in one operation, non flammable and non volatile in use dilutions, excellent solubility dilutes in hot, cold, soft or hard water of up to 1000 ppm water hardness.

The TEKROL high foaming detergent system has been especially formulated to provide heavy-duty cleaning, wetting and penetration of soils and organic matter and easy rinsing of surfaces. Excellent clinging foam is obtained at 1/2 oz. per gallon of water (1:256) to provide prolonged contact time.

TEKTROL, at 1/2 oz. per gallon of water (1:256) provides residual control of odor-causing bacteria in the presence of moisture.

TEKTROL is recommended for use when used as directed on ceramic and glazed tile surfaces, stainless steel, aluminum, chrome, galvanized metal, glass, and other non-porous surfaces such as treated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), polystyrene, vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic, polyurethane.

TEKTROL at 1/2 oz. per gallon of water (1:256) is ideally suited for disinfecting and cleaning in all areas of Veterinary Facilities, Kennels and in poultry and turkey barns, Breeder and Laying Operations, Poultry House Grow-out Operations, Hatcheries — in hatchers and setters, evaporative coolers, humidifying systems and ceiling fans, live haul equipment, chick buses, transfer trucks, trays, coop washing, polyethylene chick boxes, foot pans and feed bins. Equine facilities including stables, stalls, breeding and foaling areas and transport vehicles.

TEKTROL is recommended for use in logging (wet misting) operations as an adjunct either preceding or following regular cleaning and disinfecting procedures. Use at a dilution of 1/2 ounce per gallon (1:256). Check with a Bio-Tek representative to determine effective logging schedule for particular use sites. Leave the room when logging. In well ventilated areas, such as hatcheries, only 10 to 15 minutes is necessary before reentering. If used in a poorly ventilated area, allow at least 2 hours, or air thoroughly, before reentry. Before logging in food processing areas, all food and food packaging items must be removed or carefully protected. Treated food contact surfaces must be thoroughly scrubbed with TEKROL at 1/2 oz. per gallon (1:256) and rinsed with potable water prior to reuse.

Toxicity tests required by the U.S. Environmental Protection Agency for TEKROL DISINFECTANT CLEANER have been done, in conformity with the FDA and EPA Good Laboratory Practice Regulations.

Proven effective as a disinfectant by the following tests: A.O.A.C. (use dilution test method) in conformance with the 14th Edition 1984. All dilutions at (1:256). The following organisms tested at 1000 ppm water hardness as calcium carbonate and 10% horse serum (as organic soil):

**Staphylococcus aureus** ATCC #6538  
**Streptococcus pyogenes** ATCC #9342  
**Shigella sonnei** ATCC #25931  
**Klebsiella pneumoniae** ATCC #4352  
**Enterobacter aerogenes** ATCC #13048  
**Proteus vulgaris** ATCC #13315  
**Pseudomonas aeruginosa** ATCC #15442  
**Mycobacterium bovis** (BCG) A.O.A.C.  
Tuberculoicidal Test  
**Trichophyton mentagrophytes**  
ATCC #9533 A.O.A.C. Fungicidal Test  
**Pasteurella multocida** ATCC #6529  
(fowl Cholera)  
**Pasteurella anatis** ATCC #19615  
**Beta streptococcus** ATCC #19615  
**Mycoplasma synoviae**  
**Rhodococcus equi** ATCC #6939  
**Salmonella choleraesuis**  
Kunzendorf Strain  
**Typhlorella equigenitalis** (C.E.M.) Kentucky  
Strain #3056

**Salmonella enteritidis** ATCC #13076  
**Aspergillus fumigatus** ATCC #6285  
**Salmonella choleraesuis** ATCC #10708  
**Salmonella schottmuelleri** ATCC #8749  
**Salmonella pullorum** ATCC #19945  
**Salmonella gallinarum** ATCC #9184  
**Salmonella typhimurium** ATCC #13311  
**Salmonella arizonae** #7:1,7,b  
**Salmonella arizonae** PD 36  
**Escherichia coli** ATCC #11229  
**Alcaligenes faecalis** Strain #838  
**Alcaligenes faecalis** Georgia Strain  
**Staphylococcus epidermidis**  
**Enterococci** Group D Species  
**Mycoplasma gallisepticum**  
**Staphylococcus hylus**  
**Streptococcus equi** ATCC #38506  
**Streptococcus suis**, Type II  
**Streptococcus pyogenes** ATCC #19615  
**Haemophilus parasuis** ATCC #18417  
**Mycoplasma hyopneumoniae** ATCC #25934

+ The following Viruses tested in accordance with U.S. Environmental Protection Agency Pesticide Assessment Guidelines on inanimate environment surfaces. Tested at 1000 ppm water hardness as calcium carbonate and 10% serum (as organic soil):

— Herpes Simplex Type 1  
— Avian Infectious bronchitis virus  
— Transmissible gastroenteritis virus  
— Purdues Strains, ATCC #VR-783  
— Canine parvovirus, Strain CPV MLV  
(Cornell)  
— Parainfluenza virus, Type 1,  
Sendai Strain ATCC #VR 105  
— Avian reovirus  
— Porcine rotavirus, ATCC #VR-893  
— Avian rotavirus, AVR-1  
— Duck enteritis virus (D.V.E.)  
— Avian Laryngotracheitis  
— Newcastle disease virus

— Avian influenza virus  
— Pseudorabies virus, Aujeszky Strain  
ATCC #VR-135  
— Mouse hepatitis virus, Strain MHV-A59  
ATCC #VR-764  
— Avian adenovirus  
— Equine herpes virus, ATCC #VR-700  
(Equine rhinopneumonitis)  
— Equine arteritis, ATCC #VR-796  
(Equine viral arteritis)  
— Influenza A-2/Hong Kong virus,  
ATCC #VR-544

Hard surface Mildewicidal Test Method CSMA method 23 at 1000 ppm water hardness as calcium carbonate and 10% serum (as organic soil)

**Aspergillus niger** ATCC #6275  
(black mold)

**Penicillium variable** NRRL #3765  
(green mold)

# TEKROL®

## DISINFECTANT - CLEANER CONCENTRATE

STAPHYLOCIDAL • PSEUDOMONACIDAL • SALMONELLACIDAL  
ASPERGILLOCIDAL • TUBERCULOCIDAL • VIRUCIDAL +  
FUNGICIDAL • MILDEWICIDAL • DEODORANT

ACTIVE INGREDIENTS	ortho-Phenylphenol	12.0%
	ortho-Benzyl-para-chlorophenol	10.0%
	para-tertiary-Amylphenol	4.0%
INERT INGREDIENTS		74.0%
	TOTAL	100.0%
EPA REG. NO. 11725-7	EPA EST. NO. 11725-GA-1	

## KEEP OUT OF REACH OF CHILDREN DANGER

### PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

**Danger, Corrosive.** Causes eye and skin damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. May be harmful or fatal if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

#### Statement of Practical Treatment

**IF ON SKIN** — Wash with plenty of soap and water. Get medical attention.  
**IF IN EYES** — Hold eyelids open and flush eyes with plenty of water. Get medical attention.

**IF SWALLOWED** — Call a physician immediately. Drink large quantities of water. Never give anything by mouth to an unconscious person. Avoid Alcohol.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

### • CONDUCTIVE •

TEKTROL has been tested by Hood Patterson-Dewar, Electrical Testing Engineers, for its effect on conductive flooring. The method used conforms to the specifications known as NFPA Standard No. 56A, published by the National Fire Protection Association, Second Edition, 1987. TEKROL meets the requirement of NFPA 56A.

Manufactured by:



### BIO-TEK INDUSTRIES, Inc.

1380 West Marietta St., N.W. Atlanta, GA 30318, USA  
Telephone (404) 799-2050 Telex: 671-2844  
Fax: (404) 799-2056 Fax: (404) 799-2058

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### HATCHING EGG SANITIZER

TEKTROL is recommended for use as a Hatching Egg Sanitizer with best results being achieved in water temperatures ranging from 70°F to 110°F. The recommended dilution is 1/2 oz. per gallon of water (1:256) and may be applied through automatic washing systems, immersion tanks, foaming apparatus, low pressure sprayers, and fogging (wet misting) systems.

### GENERAL USE DIRECTIONS:

- To clean, disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, and garbage cans. Remove gross filth and heavy soil with a preliminary cleaning step prior to application of TEKROL. Apply solution of 1/2 oz. of TEKROL per gallon water (1:256) with a sponge, mop, mechanical spray device or foaming apparatus, making sure that all surfaces are wetted thoroughly. Allow surface to remain wet for 10 minutes. Air dry.
- To clean and disinfect such articles as combs, brushes, razors, scissors, instruments and rubber goods. All instruments and devices must be thoroughly cleaned to remove excess debris, rinsed and rough dried, including the hollows and lumens, before immersion in solutions. Soak for 10 minutes in a solution containing 1/2 oz. TEKROL per gallon of water (1:256).
- To disinfect fabrics such as sheets, linens, aprons and uniforms. First rinse to remove gross filth or heavy soil, then soak for 10 minutes in a solution containing 1/2 oz. of TEKROL per gallon of water (1:256).
- To clean gross filth or heavy soil on surfaces prior to disinfection, use 1/2 oz. of TEKROL per gallon of water (1:256).

TEKTROL is an effective tuberculocide against *Mycobacterium bovis* in 10 minutes at 20°C when used on hard, non-porous inanimate surfaces. Follow above directions, including removal of gross filth or heavy soil prior to application of TEKROL.

### DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, SWINE-PRODUCING FACILITIES, EQUINE FACILITIES, AND VEAL BARN.

Do not use in milking stalls, milking parlors, or milk houses.

- Remove all animals and feed from the premises.
- Remove all trucks, coops, crates, water troughs and feed racks.
- Remove all gross soil, litter, manure, droppings from animals and poultry from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals and poultry.
- Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. of TEKROL per gallon of water (1:256). Use high pressure sprayer or apply layer of foam with BIO-TEK foaming apparatus.
- Allow to remain in contact for at least 10 minutes.
- Immerse halters, ropes and other types of equipment used in handling and restraining animals, forks, shovels, scrapers used for removing litter and manure, in a solution of TEKROL at 1/2 oz. per gallon of water (1:256). Allow to remain in contact for 10 minutes.
- Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, waterers, and mangers with a solution of TEKROL at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
- Ventilate buildings, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

### STORAGE AND DISPOSAL

**Pesticide Disposal** — Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Do not contaminate water, food, or feed by storage or disposal.

**Container Disposal** — Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

TEKTROL is a registered trademark of Bio-Tek Industries, Inc.

NET CONTENTS

U.S. GALLONS





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Mason Chemical Company  
721 W. Algonquin Road  
Arlington Heights, IL 60005

JAN 23 1998

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Maquat 7.5-M  
EPA Registration No. 10324-81  
Amendment Dated October 8, 1998

Attn: Marc M. Mason  
General Manager

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records.

Submit one (1) copy of the finished printed label before this product is released for shipment.

If you have any questions concerning the comments in this letter, you should contact Zenobia Jones at (703) 308-6198.

Sincerely,

A handwritten signature in dark ink, appearing to read "Velma Noble", is written over the typed name.

Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510W)



# PRECAUTIONARY STATEMENTS

## DANGER

### Hazard to Humans and Domestic Animals KEEP OUT OF REACH OF CHILDREN. CORROSIVE.

Causes irreversible eye damage and skin burns. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing.

#### DIRECTIONS FOR USE

#### GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product is not to be used as a terminal disinfectant level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the blood stream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

Apply this product with a cloth, mop or mechanical spray device. When applied with a mechanical spray device, surfaces must be sprayed until thoroughly wetted. Treated surfaces must remain wet for 10 minutes. If mechanical spray is used spray should be coarse. A fresh solution should be prepared daily or when use solution becomes visibly dirty. For heavily soiled areas, a preliminary cleaning is required.

Before use in federally inspected meat and poultry food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected. A potable water rinse is not required following use of this compound on previously cleaned hard surfaces provided that the surfaces are adequately rinsed before contact with food so that little or no residue remains.

**DISINFECTION in Hospitals, Nursing Homes and other Health Care Institutions.** For disinfecting floors, walls, countertops, bathing areas, lavatories, bedframes, tables, chairs, garbage pails and other hard non-porous surfaces.

Add 3.5 oz of this product to 4.5 gallons of water. Apply to previously cleaned hard surfaces. At this use level, this product is effective against *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Salmonella choleraesuis*, *Listeria monocytogenes*, *Staphylococcus aureus* (Methicillin resistant) and *Campylobacter jejuni* in the presence of 5% blood serum when evaluated by the AOAC Use-Dilution test.

**Virucidal Performance** - At 3.5 oz. per 4.5 gallons use level, this product was evaluated in the presence of 5% serum and found to be effective against the following viruses: Influenza A (H1N1), Herpes Simplex Type 1 and Type 2, Vaccinia, New Castle Disease, Influenza A/3395, and Asian Influenza/Tokyo/Wisconsin as hard non-porous environmental surfaces. At 3.5 oz. per 4.5 gallons in the presence of 5% blood serum for a two minute contact time this product was found to be effective against HIV-1 (AIDS Virus).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS**

Effective against HIV on pre-cleaned environmental surfaces/objects previously soiled with blood/body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

**Personal Protection:** Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, or eye coverings.

**Cleaning Procedure:** Blood and other body fluids must be thoroughly cleaned from surfaces and objects before application of the disinfectant.

**Disposal of Infectious Material:** Blood and other body fluids should be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

**Contact Time:** Leave surfaces wet for two minutes. This contact time will not control other common types of viruses and bacteria.

# MAQUAT 7.5-M

Disinfectant - Fungicide - Deodorizer -  
Virucide - Sanitizer with Organic Soil  
Tolerance For Hospitals - Institutional -  
Industrial, School, Dairy and Other Farm Use,  
Restaurant Food Handling and Process Areas,  
Bar and Institutional Kitchen Use and for  
Sanitizing and Controlling Slime Build-up in Ice  
Machines

## ACTIVE INGREDIENTS:

Ocyl Decyl Dimethyl Ammonium Chloride	2.250%
Didecyl Dimethyl Ammonium Chloride	1.125%
Dioctyl Dimethyl Ammonium Chloride	1.125%
Alkyl (C <sub>12</sub> 50%; C <sub>14</sub> 40%; C <sub>16</sub> 10%) dimethyl benzyl ammonium chloride	3.000%

## INERT INGREDIENTS:

TOTAL	92.500%
	100.000%

## KEEP OUT OF REACH OF CHILDREN

## DANGER

See left panel for additional  
precautionary statements

## STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash with plenty of soap and water. Get medical attention.  
If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

If swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol.

**NOTE TO PHYSICIAN:** Possible mucousal damage may contraindicate the use of gastric lavage.

## MASON CHEMICAL COMPANY "THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road  
Arlington Heights, IL 60005  
847-290-1621

Toll Free:  
1-800-362-1855

E.P.A. Reg. No. 10324-81  
E.P.A. Est. No. 10324-IL-1

NET CONTENTS

BATCH NO

Disinfection in Institutions, Industry and Schools, Add 2 oz. of this product to 4.5 gallons of water.

**FUNGICIDAL PERFORMANCE.** This product at 0.5 oz. per 2.25 gallons of water is an effective fungicide against *Trichophyton mentagrophytes* (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities, utilizing the AOAC Funguspot Test.

**Disinfection of Barber Tools.** Pre-cleaned barber tools (such as combs, brushes, razors, and scissors) can be disinfected by immersing in a 0.5 oz. per gallon solution of this product.

**Disinfection of Poultry Equipment, Swine Quarters, Animal Quarters and Kennels.** Poultry brooders, water fountains, feeding equipment and other animal quarters (such as stalls and kennel areas) can be disinfected after thoroughly cleaning by applying a solution of 3.5 oz. of this product to 4.5 gallons of water. Surfaces must remain wet for 10 minutes. Small animals should be removed from the solution. Prior to disinfection, all poultry, other animals and their feeds must be removed from the premises. This includes emptying all troughs, mops and other feeding and watering appliances. Remove all litter and droppings from floors, walls, and other surfaces occupied or traversed by poultry or other animals. After disinfection, ventilate buildings, coops and other closed spaces. Do not house poultry, or other animals or empty equipment until treatment has been absorbed, soil or dried.

All treated equipment that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse.

**HATCHERIES:** Use 3.5 oz. of this product per 4.5 gallons of water to treat hatching tanks, trays, racks, carts, feeding tables, delivery trucks and other hard surfaces. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

**VEHICLES:** Clean all vehicles including math, cabs, cots, and wheels with high pressure water and this product. Use 3.5 oz. of this product per 4.5 gallons of water to treat all vehicles. Leave all treated surfaces exposed to solution for 10 minutes or more and allow to air dry.

## DRESSING PLANT DISINFECTANT DIRECTIONS

Disinfect equipment, utensils, walls and floors in poultry and animal dressing plants with a solution of 2.5 oz. of this product per 4.5 gallons of water. Equipment and utensils must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms or dressing plants.

## NON-ACID TOILET BOWL DISINFECTANT DIRECTIONS

From Concentrate:  
Add 1/4 oz. to the toilet bowl or urinal and mix. Brush thoroughly over exposed surfaces and under the rim with a cloth, mop, or sponge. Repeat and allow to stand for 10 minutes and flush.

From use-solution:  
Empty toilet bowl or urinal and apply a 0.75 oz. per gallon use solution to exposed surfaces including under the rim with a cloth, mop, sponge or sprayer; allow to stand for 10 minutes and flush.

**Sanitizing of Food Processing Equipment and Other Hard Surfaces in Food Contact Locations.** For sanitizing food processing equipment, dairy equipment, food utensils, dishes, silverware, glasses, sink tops, countertops, refrigerated storage and display equipment and other hard non-porous surfaces. **NO POTABLE WATER RINSE IS REQUIRED.** Prior to application, remove gross food particles and soil by a pre-rinse or pre-scrub and when necessary, pre-rinse then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable-water rinse before application of the sanitizing solution.

Apply a solution of 1 to 1.36 oz. of this product in 4 gallons of water, (150-280 ppm active) to a pre-cleaned, hard non-porous surface with a cloth, mop, sponge, sprayer or by immersion. For spray applications, use a coarse mist, pump or trigger sprayer. Spray 6 to 8 inches from surface, rub with brush, sponge, or cloth. Do not breathe spray mist. When spray applications cover or remove all food products. Surfaces should remain wet for at least 1 minute followed by adequate draining and air drying. A fresh solution should be prepared daily or when use solution becomes visibly dirty. For mechanical application use solution may not be reused for sanitizing applications.

Apply to sinktops, countertops, refrigerated storage and display equipment and other stationary hard surfaces by cloth or brush or mechanical spray device. **NO POTABLE WATER RINSE IS REQUIRED.**

Dishes, silverware, glasses, cooking utensils and other similar size food processing equipment can be sanitized by immersion in a 1 to 1.36 oz. per 4 gallon solution of this product. **NO POTABLE WATER RINSE IS REQUIRED.**

Sanitizing of Food Processing Equipment (like Machines) and Other Hard Surfaces in Food Contact Locations. For sanitizing food processing equipment, dairy equipment, refrigerated storage and display equipment and other hard non-porous surfaces. **NO POTABLE WATER RINSE IS REQUIRED.**

1. Turn off refrigeration.
2. Wash and rinse all surfaces thoroughly.
3. Apply a solution of 1 to 1.36 oz. of this product in 4 gallons of water (150 - 280 ppm active) by mechanical spray, direct pouring or by recirculating through the system. Surfaces must remain wet for at least one minute followed by complete draining and drying. Fresh solution should be prepared for each cleaning. No potable water rinse is required when product is used as directed.
4. Return machine to service.

## U.S. PUBLIC HEALTH SERVICE

### FOOD SERVICE SANITIZATION RECOMMENDATIONS

#### CLEANING AND SANITIZING:

Equipment and utensils must be thoroughly pre-cleaned or pre-scrubbed, and when necessary, pre-rinsed to remove gross food particles and soil.

1. Thoroughly wash equipment and utensils in a hot detergent solution.
2. Rinse utensils and equipment thoroughly with clean water.
3. Sanitize equipment and utensils by immersion in a 1 to 1.36 oz. of this product per 4 gallons of water for at least 60 seconds at a temperature of 75°. This solution is equivalent to a solution containing 50 ppm available chlorine.
4. For equipment and utensils too large to sanitize by immersion, apply 1.25 oz/2 gallon solution of this product (250 ppm active) by direct spraying or swabbing until thoroughly wetted.
5. Allow sanitized surfaces to drain and air dry. Do not reuse.

#### DIRECTIONS FOR RESTAURANT AND BAR RINSE:

Equipment and utensils should be thoroughly pre-cleaned or pre-scrubbed and when necessary pre-rinsed to remove gross food particles and soil. Then thoroughly wash or flush objects with a good detergent or compatible cleaner followed by a potable water rinse before application of the sanitizing solution. For pre-cleaned dishes, glassware, silverware, cooking utensils, immerse in a solution containing 1 to 1.36 oz. of this product per 4 gallons of water. Allow surface to remain wet for at least 60 seconds. Drain thoroughly before reuse. No-rinse is required.

#### DIRECTIONS FOR FOOD PROCESSING EQUIPMENT AND DAIRIES:

Clean and rinse equipment thoroughly, then apply sanitizing solution containing 1 to 1.36 oz. of this product per 4 gallons of water. No rinse is required.

## WISCONSIN STATE DIVISION OF HEALTH

### DIRECTIONS FOR EATING ESTABLISHMENTS

1. Scrub and pre-wash utensils and glasses whenever possible.
2. Wash with a good detergent or compatible cleaner.
3. Rinse with clean water.
4. Sanitize in a solution of 1.36 oz/4 gallons of this product, (200 ppm active quaternary.) Immerse all utensils for at least two minutes or to contact time specified by governing sanitary code.
5. Place sanitized utensils on a rack or drain board to air-dry.

**NOTE:** A clean potable water rinse following sanitization is not permitted under Section HES 196.13 of the Wisconsin Administrative Code.

### SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

Apply sanitizer use solution to pre-cleaned, hard non-porous surfaces with a cloth, mop, sponge, sprayer or by immersion. For sprayer applications, use a coarse mist pump or trigger sprayer. Spray 6-9 inches from surface, rub with brush, sponge or cloth. Do not breathe spray mist. **NOTE:** With spray applications, cover or remove all food products. Treated surfaces must remain wet for 1 minute, then wipe with sponge, mop or cloth or allow to air dry.

At 1 oz. per 4 gallons use solution to sanitize the criteria of Appendix F of the Grade A Pasteurized milk Ordinance (1979) Recommendations of the U.S. Public Health Service (10 ppm up to 500 ppm of hardness calculated as CaCO<sub>3</sub> when evaluated by the AOAC, Vermoxol and Detergent Sanitizer Method against *Escherichia coli* and *Staphylococcus aureus*.

The udders, teats and teats of dairy cows can be sanitized by washing with a solution of 1 to 1.36 oz. of this product in 4 gallons of warm water. **NO POTABLE WATER RINSE IS REQUIRED.** Wash teats with a fresh solution for 2-3 cows. Avoid contaminating the udders with dirt and soil. Do not dip used towel back into the solution. Solution becomes visibly dirty, discard and provide fresh solution.

FEB - 1 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide

280



**SHOE BATH SANITIZER DIRECTIONS**

To prevent tracking harmful organisms into animal areas, shoe baths containing one inch of freshly made sanitizing solution should be placed at all entrances to buildings and backyards. Scrape shoes and place in a 30 sec. of this product per gallon of water (200 ppm available solution for 60 seconds prior to entering area). Change the sanitizing solution in the bath daily or when solution appears dirty.

**SALVAGEABLE INSTRUMENTS AND TOOLS SANITIZER DIRECTIONS**

Pre-clean solid instruments and tools. Completely immerse water safe nonporous instruments and tools in a solution of 0.34 oz. per gallon (200 ppm) of water for at least 60 seconds. Rinse thoroughly and dry before use. Fresh solution should be prepared daily or more often if solution becomes cloudy or soiled.

**NOTE:** Plastic may remain immersed until ready to use. Stainless steel sheets and instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking may cause damage to metal instruments.

**BEVERAGE DISPENSING EQUIPMENT SANITIZER DIRECTIONS**

Fill equipment with a solution of 1.6 to 1.8 oz of this product per 4 gallons of water (150-200 ppm active). Allow solution to remain in equipment for at least 60 seconds. Drain thoroughly before reuse. No rinse required.

**SANITARY FILLING EQUIPMENT SANITIZER DIRECTIONS**

Prepare a solution of 1 to 1.36 oz of this product per 4 gallons of water (150-200 ppm active) for final wash and rinse applications. Allow surfaces to remain wet for at least 60 minutes. Drain thoroughly before reuse. No rinse required.

**STORAGE TANK SANITIZER DIRECTIONS**

Prepare a solution of 1 to 1.36 oz of this product per 4 gallons of water (150-200 ppm active) for mechanical or automatic systems. Allow surfaces to remain wet for at least 60 minutes. Drain thoroughly before reuse. No rinse required.

**SANITIZING EGG SHELLS INTENDED FOR FOOD DIRECTIONS**

To sanitize previously cleaned eggshells: eggs in shell egg and egg product processing plants, spray with a solution of 1 to 1.36 oz of this product per 4 gallons of water (150-200 ppm active). The solution should be removed from the eggs, but not be rinsed (307). The eggs thoroughly and allow to drain. Eggs sanitized with this product shall be subjected to a potable water rinse only if they are to be broken immediately for use in the manufacture of egg products. Eggs should be thoroughly dry before casing or breaking. The solution should not be re-used for sanitizing eggs.

**NOTE:** Daily clean, whole eggs can be sanitized. Dirty, cracked or perished eggs cannot be sanitized.

The product may be used on various hard nonporous surfaces including food preparation and storage areas, dishes, glassware, silverware, cooking utensils, cutting boards, counters, for chairs, refrigerated meat and vegetable and egg bins. Temperature, lubrication equipment such as food processors, blenders, cutters and other utensils, counter tops, storage containers, shelving units, appliances, refrigerators, tables, potting tables, outdoor furniture, chairs, desks, telephones, hydroponics, leaf frames, vegetable wash, cabinets, doorbells, baby bins, telephones, shower stalls, tubs and bathtubs, toilets, portable toilets, portable filling, garbage cans, exhaust fans, refrigerators, drainage and delivery equipment, coils and other parts of air conditioning and refrigeration equipment and heat pumps, door frames and window sills, walls, ceiling, trim, woodwork, floors, vinyl, linoleum and plastic upholstery, bathlins, shower stalls, sinks, toilets, toilet bowls, toilet bowl substitutes, related fixtures, walls, tiled walls, floors, concrete floors and other hard nonporous surfaces (such as metal, stainless steel, glazed porcelain, ceramic, fiberglass, stone and plastic). Dishes, glassware, plasticware, cooking utensils and other similar food processing equipment can be sanitized by immersion. No potable water rinse is required.

This product is recommended for poultry premises sanitation (hatcheries), Egg Processing Area, Egg Holding Area, Sellar Room, Tery Dumping Area, Trays, Baggies, Racks, Egg Fall, Chick Holding Room, Hatchery Room, Chick Processing Area, Chick Laying Area, Poultry Buildings, Culling, Stoves and of Eggs, Drunkens, and all other Poultry House related Equipment, and all other surfaces in the Hatchery Environment.

This product is recommended for Swine Premises Sanitation, Veterinary and Fenders, Hauling Equipment, Dressing Plant, Loading Equipment, Farming Barns and Areas, Nurseries, Blocks, Creep Area, Cribbers.

This product has been cleared by the FDA in 21 CFR Section 179.1010 for use on food processing equipment, utensils, and other food - contact articles at a concentration of 150 to 200 ppm active.

This product meets AOMAC Use - Childen Test Standards for hospital disinfectants.

This product meets AOMAC Germicidal and Disinfectant Test Standards for food - contact surfaces.

(If containers are 5 gallons or larger the following statements must appear on the label)

**ENVIRONMENTAL HAZARD**

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into waste systems without previously notifying the local sewage treatment plant authority. For guidance consult your State Water Board or Regional Office of the EPA.

(If the container is greater than one gallon and the following storage and disposal statements)

**STORAGE AND DISPOSAL**

**STORAGE INSTRUCTIONS:** Do not combine with water, food or feed by storage or disposal. Open dumping is prohibited. Store only in original containers. Do not reuse empty container. Keep this product away from children. Do not use in areas inaccessible to children or persons under the age of 18.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(If container is one gallon or less and the following storage and disposal statements)

**STORAGE AND DISPOSAL**

Store in original container in areas inaccessible to small children. Do not store on side. Avoid emptying or impacting of job walls. Do not reuse empty containers. Discard in trash (or recycle).

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

FCB - 1 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

10324-81







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

Form Approved OMB No 2070-0060

**Paperwork Reduction Act Notice:** The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date	August 20, 1999	EPA Reg No./File Symbol	66171-T	Page	2 of 2
Applicant's/Registrant's Name & Address		Product			
Preserve International PO Box 3135, Turlock, CA 95380		Synergize			

Ingredient Glutaraldehyde

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
81-1 A	Acute oral LD 50	44569501	Preserve International	OWN	
81-2	Acute Dermal LD 50	44569502	Preserve International	OWN	
81-3	Acute Inhalation	44569505	Preserve International	OWN	
81-4	Primary Eye irritation	44569504	Preserve International	OWN	
81-5	Primary dermal irritation	44569503	Preserve International	OWN	
81-6	Dermal Sensitization	44569506	Preserve International	OWN	
91-2	AOAC Use Dilution - P. aeruginosa	44433705/6	Preserve International	OWN	
91-2	AOAC Use Dilution - S. aureus	44433705/6	Preserve International	OWN	
91-2	AOAC Use Dilution - S. choleraesuis	44433705/6	Preserve International	OWN	

Signature	Name and Title	Date
	GARY L. HUNTER	8/20/99



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460

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DATA MATRIX

Date	August 20, 1999	EPA Reg No./File Symbol	66171-T	Page 1 of 2	
Applicant's/Registrant's Name & Address		Product			
Preserve International PO Box 3135, Turlock, CA 95380		Synergize			
Ingredient Alkyl (C12,67%,C14,25%,C16,7%,C18,1%) dimethyl benzyl ammonium chloride					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Product identity and composition	44433701	Preserve International	OWN	
61-2	Description of beg. materials and mfg process	44433701	Preserve International	OWN	
61-3	Discussion of formation of impurities	44433701	Preserve International	OWN	
62-1	Preliminary analysis of product samples	44433703	Preserve International	OWN	
62-2	Certification of ingredient limits	44433703	Preserve International	OWN	
62-3	Analytical Method	44433703	Preserve International	OWN	
63-2	Color	44433701	Preserve International	OWN	
63-3	Physical State	44433701	Preserve International	OWN	
63-4	Odor	44433701	Preserve International	OWN	
63-7	Bulk Density	44433702	Preserve International	OWN	
63-8	Solubility	44433701	Preserve International	OWN	
63-12	pH	44433702	Preserve International	OWN	
63-18	Viscosity	44433702	Preserve International	OWN	
63-20	Corrosion Characteristics	44433701	Preserve International	OWN	
Signature		Name and Title			Date
		Gary Ganner, Pres. Off.			8/20/99



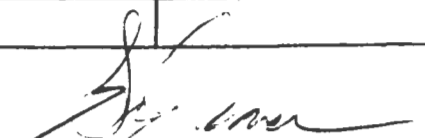


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DATA MATRIX

Date August 20, 1999		EPA Reg No./File Symbol 66171-T		Page 1 of 2	
Applicant's/Registrant's Name & Address Preserve International PO Box 3135, Turlock, CA 95380		Product Synergize			
Ingredient Glutaraldehyde					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1	Product identity and composition	4433701	Preserve International	OWN	
61-2	Description of beg. materials and mfg process	4433701	Preserve International	OWN	
61-3	Discussion of formation of impurities	4433701	Preserve International	OWN	
62-1	Preliminary analysis of product samples	4443370 4	Preserve International	OWN	
62-2	Certification of ingredient limits	4443370 4	Preserve International	OWN	
62-3	Analytical Method	4443370 4	Preserve International	OWN	
63-2	Color	44433701	Preserve International	OWN	
63-3	Physical State	44433701	Preserve International	OWN	
63-4	Odor	44433701	Preserve International	OWN	
63-7	Bulk Density	44433702	Preserve International	OWN	
63-8	Solubility	44433701	Preserve International	OWN	
63-12	pH	44433702	Preserve International	OWN	
63-18	Viscosity	44433702	Preserve International	OWN	
63-20	Corrosion Characteristics	44433701	Preserve International	OWN	
Signature 		Name and Title Gary Grumer, President		Date 8/20/99	

United States Environmental Protection Agency  
Washington, DC 20460**Formulator's Exemption Statement**  
(40 CFR 152.85)

Applicant's Name and Address

Preserve International  
Po Box 3135  
Tuelock, CA 95381

formulator's exp.

EPA File Symbol/Registration Number

66171-T

Product Name

Synergize

Date of Confidential Statement of Formula (EPA Form 8570-4)

July September 20, 1999

As an authorized representative of the applicant for registration of the product identified above, I here certify that:

(1) This product contains the following active ingredient(s):

Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl benzyl ammonium Chloride ... 26%  
Glutaraldehyde ... 7%

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging of another product which contains that active ingredient, which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.

(3) Indicate by checking (A) or (B) below which paragraph applies:

☐ (A) An accurate Confidential Statement of Formula (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicate, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☒ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source

Active Ingredient

Product Name

Registration Number

① Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%) dimethyl ammonium Chloride

② Glutaraldehyde

Signature

Name and Title

Date

Gary Gaumer, President

9/20/99



## Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 1.5 hours per response, including familiarization with the form, organizing the necessary information, and completing the form. Send any comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Chief, Information Policy Branch, PM-223  
U.S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, DC 20460

and to

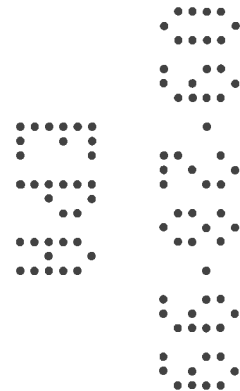
Office of Management and Budget  
Paperwork Reduction Project (2070-0060)  
Washington, DC 20503



Office of Gary E. Gaumer 336 Broadway, Suite 18, Chico, CA 95928 • Bus: (530) 879-9220 • Fax: (530) 879-9212 • Email: GEGaumer@Shocking.com

September 22, 1999

Ms. Tracy Lantz  
Regulatory Management Branch I  
Anti-Microbial Division (7510C)  
USEPA  
401 M Street SW  
Washington, DC 20460



Dear Ms. Lantz

In response to your June 1, 1999 letter, please find the following changes:

**Confidential Statement of Formula:**

- 1) Completed. Please see CSF
- 2) Completed. Please see Alternate Suppliers List
- 3) Completed. Please see CSF
- 4) Completed. Please see CSF
- 5) Completed. Please see CSF
- 6) Completed. Please see CSF

Data Matrix Completed. Please see attached Data Matrix

Formulator's exemption Completed. Please see attached Formulator's Exemption Statement.

**Label:**

- 1) The name SYNERGIZE was used because the product is truly synergistic. Glutaraldehyde by itself has no activity against lipophylic viruses nor is it active against mold spores. Glutaraldehyde is a weak penetrator therefore it has a hard time breaking down the cell wall of mold or lipophylic viruses. We use the quaternary ammonia compound (QAC) as the first step active ingredient which works on the surface of the organism making the cell wall permeable thus allowing the Glutaraldehyde to enter the cell wall. SYNERGIZE is truly synergistic. Seymore Block describes the inabilities of Glutaraldehyde very well. Please see Addendum A The claims Staphylocidal, Pseudomonacidal etc. have been used on labels for the last numerous years. Please see enclosed TEK-TROL , EPA Reg.



**Label Cont. Page 2:**

- 11725-7. Please reference a PR notice to the contrary. For the purpose of this submission, we have deleted them from the label.
- 2) We have broken down and clearly defined the differences between poultry and swine premises and equipment. As for defining exactly what the equipment and tanks do, you and I concluded in our discussion of July 26, 1999 that since we will clearly state that Synergize is not intended for food or feed contact surfaces, it becomes not necessary to define all the sites listed. In addition, we have very clearly stated that all treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse. Please see revised July 26, 1999 label.
  - 3) Completed. Please see revised July 26, 1999 label.
  - 4) Completed. Please see revised July 26, 1999 label.
  - 5) Completed. Please see revised July 26, 1999 label.
  - 6) Completed. Please see revised July 26, 1999 label.
  - 7) Completed. Please see revised July 26, 1999 label.
  - 9A) As per DIS/TSS 15, this product can be classified as a one step Disinfectant-Cleaner-Deodorant based on the moderate level of organic challenge to overcome. (i.e. 5%) Any reference to pre-cleaned surfaces has been removed.
  - 9B) As per DIS/TSS 15, this product can be classified as a one step Disinfectant-Cleaner-Deodorant based on the moderate level of organic challenge to overcome. (i.e. 5%)
  - 9C) Completed. Please see revised July 26, 1999 Label.
  - 9D) Completed. Please see revised July 26, 1999 Label.
  - 9E) Completed. Please see revised July 26, 1999 Label.
  - 9F) Completed. Please see revised July 26, 1999 Label.
  - 9G) Completed. Please see revised July 26, 1999 Label.
  - 9H) Completed. Please see revised July 26, 1999 Label.
  - 9I) Completed. Claim has been removed. Please see July 26, 1999 Label
  - 9J) Completed. Claim has been removed. Please see July 26, 1999 Label.
  - 9K) Completed. We have revised the directions and included the direction to allow surfaces to remain wet for 10 minutes. All treated surfaces that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent then rinsed with potable water before reuse. Please see revised July 26, 1999 Label.
  - 9L) Completed. Please see revised July 26, 1999 Label.
  - 9M) Completed. Please see revised July 26, 1999 Label.
  - 9N) **Ratites are Ostriches and Emus.**
  - 9O) Completed. Please see revised July 26, 1999 Label.
  - 9P) Completed. Please see revised July 26, 1999 Label.
  - 9Q) Completed. Please see revised July 26, 1999 Label.
  - 10) Completed. Please see revised July 26, 1999 Label.



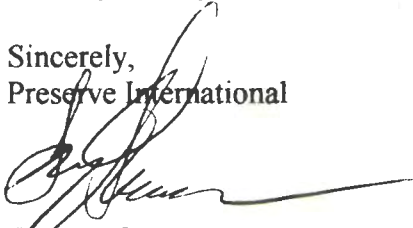
**Label Cont. Page 3:**

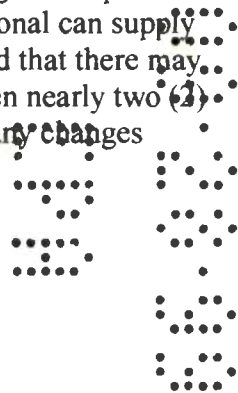
- 11) Completed. Please see revised July 26, 1999 Label.
- 12) Completed. Please see revised July 26, 1999 Label.

The attached label has been rewritten using directions from currently registered products. We have included a few of these labels. If requested, Preserve International can supply additional USEPA registered labels. As your letter states, we understand that there may be additional label comments but since this registration process has taken nearly two years to date, we respectfully request that a registration be granted and any changes required be attached as a comments page.

Thank you for your time and consideration.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President





**FQPA**

Reviewer ID

THANTZ

Submission No.

5556284

Data Package No.

D252997

FQPA

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-T PM 31

Action Code

187Old Chemical  
Minor  
change

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes☐ (N) No|15| Child-resistant  
Packaging☐ (C) Certification☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional☐ (2) Unconditional☐ (R) Non-residential  
Use Only☐ (N) Not-Applicable120  
days

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted☐ (R) Restricted☐ (G) General☐ (N) Not Classified

Due Date:

6/1/99

|35| Date on Application:

0112999  
MO DAY YR

|04| EPA Received Date:

020199  
MO DAY YR

|40| Date Received by PM

020899  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All☐ (6) Owner Submission☐ (4) Not Applicable☐ (7) Total Submission☐ (5) Not Submitted☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENTDUE  
DATEDATE  
RETURNEDRESPONSE  
CODERESPONSE  
DATE|115| FINAL Response  
ACTION Code13

|120| Response

JUN 01 1999

MO DAY YR

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes☐ (N) No

PRODUCT CHEMISTRY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
2524 Industrial Rowe  
Turlock, CA 95380

JUN 01 1999

ATTENTION: Gary Gaumer

SUBJECT: Synergize  
EPA File Symbol: 66171-T  
New Product Application  
Your Application for Registration Dated: January 29, 1999

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, to register 66171-T is unacceptable.

The submitted Confidential Statement of Formula (CSF) dated 12/18/98 is unacceptable. The following comments apply to your CSF.

- 1) Revise your CSF such that it lists the purpose of each component in your formulation in section 15.
- 2) Listing "Various" is not acceptable when describing the suppliers of your inert ingredients. The name and address of each supplier must be supplied in section 11. If there is insufficient space on the CSF then an addendum should be attached.
- 3) Your CSF should be revised such that the nominal concentrations for the active and inert ingredients which are not 100% solutions are listed on a separate line in section 13b. In your formulation this applies to [REDACTED]
- 4) Revise those certified limits for the components listed above such that they are based on the nominal concentration of that ingredient and to agree with the certified limits table in 40 CFR Part 158.175. Alternately, you may "propose certified limits for active and inert ingredients that differ from standard calculations" provided you submit an acceptable justification to the Agency as per (40 CFR 158.175 (c)).

CONCURRENCES

SYMBOL	7510C						
SURNAME	J. J. [REDACTED]						
DATE	6/1/99						



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

5) Revise the lower certified limit for [REDACTED] such that it is in agreement with the certified limits table in 40 CFR Part 158.175. Alternately, you may "propose certified limits for active and inert ingredients that differ from standard calculations" provided you submit an acceptable justification to the Agency as per (40 CFR 158.175 (c)).

6) Provide a CAS# for the component [REDACTED]

According to the submitted Certification with Respect to Citation of Data dated 4/22/98 you are using the selective method of data support. If this is the case you must supply a Data Matrix as per as per PR Notice 98-5 which includes the Agency Copy and the Public File Copy. The Data Matrix must cite all studies which are being referenced to support Product Chemistry, Product Toxicity, and Efficacy.

The submitted Formulator's Exemption Statement dated 12/18/98 is incorrect. Revise this form such that item (1) lists both active ingredients in this product in the same manner in which they are listed on the label. Both this form and the label must state the quaternary ammonium as *Alkyl (67% C<sub>12</sub>, 25% C<sub>14</sub>, 7% C<sub>16</sub>, 1% C<sub>18</sub>) dimethyl benzyl ammonium chloride*.

The label dated April 22, 1998, has been reviewed in conjunction with this submission. Address the following label comments:

1) Explain why you believe, or provide data which demonstrates, that your product is "synergistic". If you are unable to provide this information these claims must be removed and the product name be changed.

2) The claims "Staphylocidal," "Pseudomonacidal," and "Streptocidal" are not allowed since this product does not kill all organisms of the genus *Staphylococcus*, *Pseudomonas* or *Streptococcus*. You may list the specific organisms for which you have provided efficacy data by listing the genus and species of each.

3) Your label lists several sites which are not clearly defined. Your label must identify where the following areas are located: "farrowing pens, nurseries, growing and finishing floors". Your label also lists "equipment for mixing, packing, packaging product, transfer line, storage tanks". Equipment for mixing what? Packaging what type of product? What type of storage tanks? What parts of a "vehicle" are being disinfected? In addition, your label must make clear that this product is only for non-food contact surfaces.

These sites must be repeated under the "Directions for Use" followed by appropriate directions for each site.

4) Delete the phrase contained in the first paragraph on page one "*thorough penetration and*". This product is for use on hard non-porous surfaces, therefore it is not intended to penetrate any surface.

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

5) On page one of your label revise the statement which begins "Synergistic cleaner-disinfectant-deodorant specifically formulated for industrial or non-food, contact surfaces such as animals and poultry..." to read as follows "Synergistic cleaner-disinfectant-deodorant specifically formulated for industrial or non-food, contact surfaces such as *animal* and poultry..."

6) Revise your "Storage and Disposal" statements by formatting this section exactly as follows.

**STORAGE AND DISPOSAL**

**Do not contaminate water, food, or feed, by storage and disposal.**

**Pesticide Storage:**

**Pesticide Disposal:**

**Container Disposal:**

The following three statements must be placed under the subheading "Pesticide Storage": "Store away from heat. Do not transfer to another container. Do not reuse empty container."

You may retain your "Pesticide Disposal" statement.

Revise the "Container Disposal" statement by deleting the statement for "gallons or smaller" since your product does not comply with PR Notice 84-1. This PR Notice applies to products in small containers which "are used in public areas such as office buildings, retail stores, hotels, and schools, and hospital patient care areas, as well as products intended for use in home gardens and lawns." Your product does not list these types of sites.

In addition, delete the statement pertaining to metal containers since this is not in agreement with your Application for Pesticide dated 7/15/97.

7) Revise the first paragraph on page two by deleting the phrase "provides the broadest spectrum kill" to read "provides a *broad* spectrum kill". It is preferred that the phrase "moderate levels of organic matter" be replaced by the phrase "5% serum". This phrase appears several time on this label.

8) The following statements in the third section of page two are not needed and must be deleted. Delete the section beginning "The following tests run in conformance..." and ending "...A.O.A.C. Use Dilution Method, A.O.A.C. Use Dilution Method".

9) Make the following revisions to your "Directions for Use"

A) Your "Directions for Use" do not comply with DIS/TSS-15. Cleaning instructions must be clearly separated from the directions for use of this product as an antimicrobial agent. You may not use the same set of directions for disinfection, deodorization, and cleaning.

B) Give specific deodorization instructions for this product.

**CONCURRENCES**

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<b>SURNAME</b>							
<b>DATE</b>							

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

C) Revise the first section of the "Directions for Use" by changing the phrase "disinfecting and deodorizing all pre-cleaned hard surfaces" to read *"disinfecting and deodorizing pre-cleaned hard non-porous surfaces"*.

D) This product is not for use on poultry litter. Be certain this label contains no references to using this product on poultry litter.

E) Delete the word "General" from the phrase "General Use Directions"

F) Your "Directions for Use" section must be reformatted such that directions for each site are grouped together. For example, group the animal and poultry uses together with specific instructions. Your label should contain statements such as the following: "For use in Swine Producing Facilities on the following surfaces: farrowing pens..." Your label does not have adequate directions for any of the following sites: hatchers and setters, chick-go-round, traywashing machines, central and portable fogging systems, chick busses and transfer trucks, etc. These area should be listed under a specific set of directions, for example "poultry house" and be certain that the directions are adequate for all sites. What parts of chick busses and transfer trucks is your product meant to disinfect?

G) The "boot, shoe and wheel wash" instructions must be more detailed as to indicate the types of boots and shoes which can be treated along with the appropriate contact time and the method which should be used to apply the product to these surfaces.

H) Your label must identify the location of the following areas: "farrowing pens, growing floors, nurseries, finishing floors, aisles, utensils, transportation and transfer vehicles".

I) Ventilation equipment, humidifying systems and evaporative coolers are not approved sites for these active ingredients.

J) In order to recommend this product for use on concrete floors you must show that you have data to support use on a porous surface or your label must specify it is for use on floors which have been treated (i.e. coated) to render them non-porous.

K) Identify the sites which may be "Thermalfogged." It appears that this application should be followed by a potable water rinse although this is not indicated on you label. It also appears that some of the directions under the "Note" have been deleted from previous versions of this label. Add back the complete statement concerning respirators (be certain this complies with PR Notice 98-9) and the language concerning other PPE along with instructions concerning feeders and waterers.

L) The following statement must be added as item number 4. in the directions for "Swine Producing Facilities" and accordingly renumber the remaining items in this section. This same statement should also be added as item number 5. in the directions for "Farm Premises" and accordingly renumber the remaining items in this section. Add the

CONCURRENCES

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

statement "Thoroughly clean all surfaces with soap or detergent and rinse with water."

M) Your label must have separate instructions for "Poultry Houses" as per DIS/TSS-19 (see enclosure).

N) Identify the site "Ratities Facilities". It is unclear to the Agency as to the specifics of this site.

O) There are several references in this section stating that this product is "recommended" or "highly recommended". These phrases must be removed since they could be misconstrued as an endorsement by the Agency.

P) As per PR Notice 91-7 delete the phrases "highly recommended", "extremely effective" and "excellent activity" since each implies heightened efficacy.

Q) Remove the site "untreated wood" since this would be considered a porous surface.

10) Revise the "Precautionary Statements" to read as follows:  
 "Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. For handling activities during [insert applicable terms based on directions for use: airblast mistpower, pressure greater than 40 p.s.i. with fine droplets, smoke, mist, fog, aerosol, or direct overhead] exposures, wear either a respirator with organic vapor (OV) cartridge, or a canister with any N, P, R, or HE prefilter. For all other exposures, wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse."

11) Revise the "Statement of Practical Treatment" to read exactly as follows:

"IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, eggwhites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol."

You may retain your "Note to Physician".

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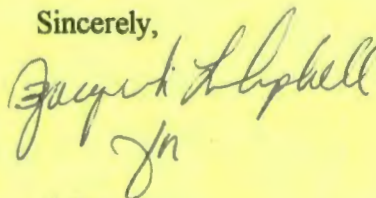


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

12) Make the following change to the "Environmental Hazards" statement. Delete the sentence: "Keep out of lakes, ponds or streams." and replace it with: "Do not apply directly to water."

This letter does not constitute registration and this product cannot be lawfully marketed until it is registered. The Agency cannot complete its assessment of your product until the required data has been reviewed. Submit 5 copies of the revised labeling and address each item listed previously. There will likely be additional label comments once your responses have been reviewed. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510C)

Enclosure  
7510C:T.Lantz:5/26/99:66171-T

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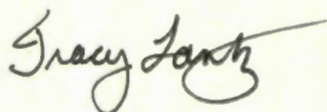
NOTE TO THE JACKET

66171-T

5/26/99

I spoke with Marshall Swindell as to whether 66171-T could use [REDACTED] as the source of the active ingredient glutaraldehyde. [REDACTED]

[REDACTED]. Marshall says that this has been interpreted rather broadly in the past and this product is already the source for other disinfectants using glutaraldehyde as an active ingredient.



Tracy Lantz  
Team 31



# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL \* PSEUDOMONACIDAL \* SALMONELLACIDAL

*Synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.*

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%  
Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%

TOTAL .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

EPA Registration No.: 66171-

EPA Establishment No.: 66171-TN-001



Zephyr Cove, NV 89448

Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607

# SYNERGIZE DRAFT LABEL

April 22, 1998

Page 2

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing moderate levels of organic matter.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at the use dilution (1:256).

### A.O.A.C. Use-Dilution Method

*Staphylococcus aureus* A.T.C.C. 6538

*Salmonella choleraesuis* A.T.C.C. 10708

### A.O.A.C. Use-Dilution Method

*Pseudomonas aeruginosa* A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

SYNERGIZE, a synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine production facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product transfer line, storage tanks, vehicles floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.

## GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (1:256). Apply with cloth, sponge mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of hatcheries - in hatcheries & setters, chick-go-round, traywashing machines, central and portable fogging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick buses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in moderate levels of organic matter.

BOOT/SHOE & WHEEL WASH SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMALFOGGING

1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.

2) Double check to be sure all people, livestock and pets have vacated the building.

3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.

4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.

5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved



# SYNERGIZE DRAFT LABEL

April 22, 1998

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256) using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatchery, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful if swallowed. If inhaled remove to fresh air. Avoid contamination of food. Protective gloves are recommended when working with solution.

## STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons

# FQPA

DP BARCODE: D252997

CASE: 063339  
SUBMISSION: S556284

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 02/08/99  
Page 1 of 1

## \* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: REGISTRATION ACTION: 187 RESB AmD-OC-MINOR CHG  
CHEMICALS: 043901 Glutaral

7.0000%

ID#: 066171-T SYNERGIZE  
COMPANY: 066171 PRESERVE INTERNATIONAL  
PRODUCT MANAGER: 31 VELMA NOBLE 703-308-6233 ROOM: CS1 6W18  
PM TEAM REVIEWER: TRACY LANTZ 703-308-6415 ROOM: CS1 6W5  
RECEIVED DATE: 02/01/99 DUE OUT DATE: 06/01/99

## \* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 252997 EXPEDITE: N DATE SENT: 02/08/99 DATE RET.: / /  
CHEMICAL: 043901 Glutaral  
DP TYPE: 001

CSF: Y	LABEL: Y	ADMIN DUE DATE: 05/14/99
ASSIGNED TO	DATE IN DATE OUT	NEGOT DATE: / /
DIV : AD	2/1/99 / /	PROJ DATE: / /
BRAN: EASSB	2/1/99 / /	
SECT: CTT	2/10/99 / /	
REVR : Anna	/ /	
CONTR: Anna Skayeb	/ /	

2-12-99

## \* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Karen, please review for product chemistry, the registrant's  
revised CSF  
Thank You! Gerrie

## \* \* \* DATA PACKAGE EVALUATION \* \* \*

No evaluation is written for this data package

## \* \* \* ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION \* \* \*

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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**SUBJECT: PRODUCT CHEMISTRY REVIEW:** Antimicrobials Division

**DP Barcode:** D252997      **Reg. No. Or File Symbol:** 66171-T  
**Manufacturing-use [ ] OR End-use Product [X] Case #**

**TO:** Velma Noble/Tracy Lantz  
PM Team No. 31

**FROM:** Anna Skapars, Chemist  
Chemistry-Toxicology Team (CTT)  
Efficacy and Science Support Branch  
Antimicrobials Division (7510C)

**THRU:** Karen Hicks, Team 2 Leader  
Efficacy and Science Support Branch  
Antimicrobials Division (7510C)

**THRU:** Michele E. Wingfield, Chief  
Efficacy and Science Support Branch  
Antimicrobials Division (7510C)

*Karen P. Hicks*  
*2-12-99*

*Michele E. Wingfield*

**SUMMARY OF INFORMATION REVIEWED AND FINDINGS**

- A. Revised Confidential Statement of Formula dated 12/18/98 is in compliance with PR Notice 91-2, it agrees with the label and would be acceptable. CSF is not filled out completely, and it should be resubmitted.
- B. Submit revised Confidential Statement of Formula and in Block 15 enter the purpose in formulation for each ingredient in the formula and in Block 11 enter the name and address of each supplier and list all alternate suppliers and alternate trade names of each supplier.

Confidential Statement of Formula will be acceptable when it will be filled out completely.

Note to PM:

This formulation is not cleared by Federal Food, Drug and Cosmetic Act for use on food contact surfaces as terminal sanitizing rinse.

SUBJECT: PRODUCT CHEMISTRY REVIEW - Antimicrobials Division  
DP Barcode D252997 Reg. No. or File Symbol 66171-T  
Manufacturing-Use [ ] or End-Use Product [ ☒ ] Case# \_\_\_\_\_

TO: Velma Noble / Tracy Lantz  
PM Team No. 31

FROM: Anna Skapars, Chemist Anna Skapars  
Chemistry-Toxicology Team (CTT)  
Efficacy and Science Support Branch (ESSB)

THRU: Michele E. Wingfield, Branch Chief  
Efficacy and Science Support Branch (ESSB)

SUMMARY OF INFORMATION REVIEWED AND FINDINGS

- A. Revised Confidential Statement of Formula dated 12-18-98 is in compliance with PR Notice 91-2 it agrees with the label and would be acceptable. CSF is not filled out completely, and it should be resubmitted.
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- Confidential Statement of Formula will be accepted when it will be filled out completely.

Note to PM:

This formulation is not cleared by Federal Food, Drug and Cosmetic Act for use on food contact surfaces as terminal sanitizing rinse.



United States Environmental Protection Agency  
Washington, DC 20460**Formulator's Exemption Statement**  
(40 CFR 152.85)

Applicant's Name and Address

Preserve International  
PO Box 3135  
Turlock, CA 95381

EPA File Symbol/Registration Number

66171-T

Product Name

Synergize

Date of Confidential Statement of Formula (EPA Form 8570-4)

12/18/98

As an authorized representative of the applicant for registration of the product identified above, I here certify that:

(1) This product contains the following active ingredient(s):

(2) Of these, each active ingredient listed in paragraph (4) is present solely as the result of the use of that active ingredient in the manufacturing, formulation or repackaging of another product which contains that active ingredient, which is registered under FIFRA Section 3, is purchased by us from another producer, and is labeled for at least each use for which my product is proposed to be labeled.

(3) Indicate by checking (A) or (B) below which paragraph applies:

☐ (A) An accurate Confidential Statement of Formula (EPA Form 8570-4) for the above identified product is attached to this statement. That formula statement indicate, by company name, registration number, and product name, the source of the active ingredient(s) listed in paragraph (1).

OR

☒ (B) The Confidential Statement of Formula (CSF) (EPA Form 8570-4) referenced above and on file with the EPA is complete, current, and accurate and contains the information required on the current CSF.

(4) The following active ingredients in this product qualify for the formulator's exemption.

Source

Active Ingredient	Product Name	Registration Number
Quaternary Ammonium		
Glutaraldehyde		
Signature	Name and Title Gary Gaumer/President	Date 12/18/98

## Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 1.5 hours per response, including familiarization with the form, organizing the necessary information, and completing the form. Send any comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to:

Chief, Information Policy Branch, PM-223  
U.S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, DC 20460

and to

Office of Management and Budget  
Paperwork Reduction Project (2070-0060)  
Washington, DC 20503





**World Headquarters** 2524 Industrial Rowe, Turlock, CA 95380 • Bus: (209) 664-1607 • Fax: (209) 664-1728 • USA: (800) 995-1607  
**Tennessee Operation** 1213 Empire Avenue, Memphis, TN 38107 • Bus: (901) 272-0031 • Fax: (901) 726-6446

January 29, 1999

Ms. Velma Noble  
Product Manager 31  
Regulatory Management Branch 1  
Antimicrobial Division (7510C)  
USEPA  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202-4501

Re: Synergize, EPA File Symbol 66171-T

Dear Ms. Noble:

As per your request in your December 8, 1998 letter, please find the enclosed:

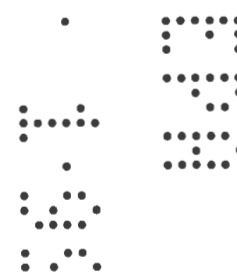
- 1) New CSF showing [REDACTED] as the source for Glutaraldehyde.
- 2) New Certification With Respect to Citation of Data showing [REDACTED] as the source for Glutaraldehyde.

Thank you for your time and consideration of our response.

Sincerely,  
Preserve International

A handwritten signature in black ink, appearing to read 'Gary E. Gaumer', written over a circular stamp.

Gary E. Gaumer  
President



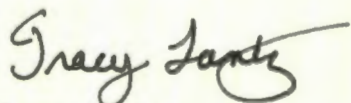
NOTE TO THE JACKET

66171-T

5/26/99

I spoke with Marshall Swindell as to whether 66171-T could use [REDACTED] as the source of the active ingredient glutaraldehyde. [REDACTED]

[REDACTED] Marshall says that this has been interpreted rather broadly in the past and this product is already the source for other disinfectants using glutaraldehyde as an active ingredient.



Tracy Lantz  
Team 31



and kerosine; soluble in acetone and dimethylformamide.

Hazard: May be toxic.

Use: Herbicide.

"Swift's Technical Protein Colloids."<sup>152</sup> Trademark for a series of colloids whose molecular weight is in the range of 10,000 and up. Used as emulsifiers, dispersing agents, foamers, chelating agents, buffers, binders, flocculants, coatings and adhesives.

"Sylfat."<sup>150</sup> Trademark for high-purity tall oil fatty acids used in protective coatings, soaps, detergents, disinfectants, intermediates, and flotation chemicals.

"Sylflex."<sup>149</sup> Trademark for compositions used in the preparation of leather to impart permanent water repellence.

"Sylgard."<sup>148</sup> Trademark for a series of silicone resin encapsulants used in electronic assemblies.

"Sylkyd."<sup>149</sup> Trademark for organosiloxo compositions for use as intermediates in the production of resins and formulating varnishes, paints, and enamels.

"Sylmer."<sup>149</sup> Trademark for silicone compositions used in the finishing textile fabrics, and in the preparation and treatment of leather to impart permanent water repellence.

"Syl-off."<sup>148</sup> Trademark for a series of stick-proof silicone coatings for paper. Coatings are unaffected by melts up to 275°F.

"Sylloid."<sup>141</sup> Trademark for a series of micron-sized silicas. Used as flattening agents, lacquer, baking finishes, inks, paper reproduction, adhesives, pharmaceuticals, insulation.

"Sylvaloy."<sup>148</sup> Trademark for an alloy composed of nickel, 97.0%; silicon, 3.0%.  
Properties: M.p. 1420°C; sp. gr. 8.61; tensile strength at 20°C, 75,000 psi. Used in electron tube materials.

"Sylramix."<sup>150</sup> Trademark for an internal additive for concrete masonry. A noncorrosive, nonflammable resin derivative of tall oil, developed principally to reduce water absorption, improve surface texture and inhibit efflorescence in all types of concrete masonry units and in mortar joints.

"Sylvaros."<sup>150</sup> Trademark for high purity tall oil resins used in sizing of paper and manufacture of resins for protective coatings and food containers.

"Sylvatal."<sup>150</sup> Trademark for a refined tall oil.

sylvic acid. See abietic acid.

sylvite (sylvine) KCl. A natural potassium chloride. Contains about 43% potassium chloride, 57% sodium chloride, sometimes with up to 0.26% bromide.

Properties: Colorless or white, bluish or reddish in color; streak, white; vitreous luster. Resembles rock salt in appearance. Sp. gr. 1.97-1.99; Mohs hardness 2.

Occurrence: West Texas; New Mexico; Europe.

Use: Major source of potassium compounds in the United States; used for fertilizers.

sym-. Abbreviation for symmetrical. A prefix denoting the structure of organic compounds in which substituents are disposed symmetrically with respect to the carbon skeleton or to a functional group. For example, sym-dichloroethane is  $\text{ClH}_2\text{CCH}_2\text{Cl}$ . Uns- and as- are used for unsymmetrical or asymmetrical.

symmetrical. See sym-.

"Symmetrel"<sup>128</sup> (amantadine hydrochloride). Trademark for a synthetic antiviral drug specific for A<sub>2</sub> type virus infection (one type of Asian flu). It is taken orally, and acts by preventing the virus from entering cells. It is inactive against B type viruses.

"Sympatol" Tartrate.<sup>102</sup> Trademark for synephrine tartrate.

synaptase. See emulsin.

"Synasol."<sup>114</sup> Trademark for solvent composed of 100 gal of S.D. 1 ethanol denatured with 1 gal of methyl isobutyl ketone, 1 gal of ethyl acetate (87%), and 1 gal of aviation gasoline.

Properties of anhydrous grade: Sp. gr. 0.7900-0.7940 at 20/20°C; b.p. (760mm) 74.5°C-79.5°C; flash point 55°F.

Properties of 190 proof grade: Sp. gr. 0.8095-0.8135 (20/20°C); b.p. 74.5-79.5°C (760 mm); flash point 55°F.

Grades: Anhydrous and 190 proof.

Containers: 1-gal can; 5- and 55-gal drums; tank cars up to 10,000 gal.

Hazard: Flammable, dangerous fire risk. Moderately toxic by ingestion.

Uses: Wherever an alcohol-type solvent is required, except for anti-freeze, where its use is prohibited by the Bureau of Internal Revenue.

Shipping regulations: (ICC, CG, IATA) Red label.

"Syncurine."<sup>101</sup> Trademark for decamethonium bromide.

syndet. Abbreviated form for synthetic detergent. See detergent.

syndiotactic. A type of polymer molecule in which groups of atoms that are not part of the backbone structure are located in some symmetrical and recurring fashion above and below the atoms in the backbone chain, when the latter are arranged so as to be in a single plane. See polymer, stereospecific.

"Synektan."<sup>100</sup> Trademark for a series of synthetic tanning materials.

"NCRP." A chrome complex of an aromatic sulfonic acid condensation product.

"NPP." A sulfonated phenol-formaldehyde condensate.

"O-230." A sulfonated phenolic replacement tan.

synephrine tartrate (para-methylaminoethanolphenol tartrate; 1-(para-hydroxyphenyl)-2-methylaminoethanol tartrate)  
 $(\text{HOCH}_2\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{NHCH}_3)_2\text{C}_4\text{H}_8\text{O}_6$ .

Properties: White crystals; freely soluble in water and alcohol; m.p. 182-85°C.

Use: Medicine.

syneresis. The contraction of a gel on standing, with exudation of liquid. The separation of serum from a blood clot, or of the whey in milk souring or cheese making are examples.

synergism. A chemical phenomenon in which the effect of two active components of a mixture is more than additive, i.e., it is greater than the equivalent volume or concentration of either component alone. A substance that induces this result when added to another substance is called a synergist.

"Synkamin."<sup>130</sup> Trademark for 4-amino-2-methyl-1-naphthol, as the hydrochloride,  
 $\text{NH}_2(\text{CH}_2)_2\text{C}_{10}\text{H}_7\text{OH}\cdot\text{HCl}$ . Used in medicine.

"Synoca."<sup>108</sup> Trademark for a group of cleaning compounds, including wetting agents, detergents or alkaline hexametaphosphate.

Containers: 100 and 200 lb.  
Uses: Continuous con paper machine felts  
Deinking of second

"Synotol."<sup>155</sup> Trademark for fatty acids. Improvers, wetting ifers.

"Synpol." Trademark for rubber polymers inc SBR rubbers, emul bon black masterba The grades are spec range of special apj

syntan. A synthetic from phenolsulfonic for both chrome an also tanning.

"Synthane."<sup>157</sup> Trade setting plastic made to layers of cellul fabric, glass fabric nolic, melamine, sil

"Syntharol."<sup>155</sup> Trac and binders used a

"Synthe-Copal."<sup>156</sup> I gums.

"Synthemul."<sup>156</sup> Tra emulsions.

"Synthenol."<sup>154</sup> Trad castor oils with fa excellent color retu Uses: Varnishes, en

synthesis. The oppo istry, creation in which may either indigo, rubber) or nature, (e.g., nylo and numerous in' formed during the plastics, dyes, fibe an outstanding act also semisynthetic

synthesis gas. Any hydrogen, usually conversion to am other organic cor monoxide may be duction may be b; on carbon or na natural gas, or b and Oxo process.

"Synthetic Deterge for a liquid sod tremely low inorg duced unsulfatec



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16, 1%C18)

STATUS	SITE CODE	SITE NAME
ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
INACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
INACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
ACTIVE	58006	HATCHERY EQUIPMENT
ACTIVE	58007	HATCHERIES
INACTIVE	60000	DAIRY FARM MILK HANDLING FACILITIES & EQUIPMENT (ALL/UNSPEC)
INACTIVE	60005	MILKING EQUIPMENT
ACTIVE	61000	FARM OR AGRICULTURAL STRUCTURES AND EQUIPMENT (UNSPECIFIED)
INACTIVE	61001	FARM OR AGRICULTURAL STRUCTURES/PREMISES (USE UNSPECIFIED)
INACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
INACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
INACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	64000	WOOD PROTECTION TRT TO EXIST BUILDINGS OR PARTS OF BUILDINGS
ACTIVE	64001	WOOD PROTECTION TRT TO UNSEASONED FOREST PRODUCTS
ACTIVE	64002	WOOD PROTECTION TRT TO SEASONED FOREST PRODUCTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	64010	WOOD PROTECTION TRT TO FOREST PRODUCTS BY PRESSURE
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65011	SWIMMING POOL WATER SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS ?
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
INACTIVE	70007	AUTOMOBILES, TAXIS, LIMOUSINES, RECREATIONAL VEHICLES & TIRES
INACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
INACTIVE	71001	BAKERIES
INACTIVE	71002	BOTTLING PLANTS
INACTIVE	71004	CANNERIES AND FROZEN FOOD PLANTS
INACTIVE	71005	MILK PROCESSING PLANTS
INACTIVE	71008	MEAT PROCESSING PLANTS
INACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
INACTIVE	71019	BEVERAGE PROCESSING PLANTS
INACTIVE	71022	FISH AND SEA FOOD PROCESSING PLANTS
INACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	72006	EATING ESTABLISHMENTS EQUIPMENT AND UTENSILS
INACTIVE	73002	FOOD STORES AND MARKETS
INACTIVE	73007	FOOD MARKETING, STORAGE & DISTRIBUTION EQUIPMENT & UTENSILS
INACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
INACTIVE	74008	HOSPITAL CRITICAL PREMISES (E.G. OPERATING ROOMS)
INACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
INACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
INACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)
INACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
INACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES



## SITES ON WHICH THIS CHEMICAL CAN BE USED 069175

Alkyl\* dimethyl benzyl ammonium chloride \*(67%C12, 25%C14, 7%C16,  
1%C18)

## STATUS SITE CODE SITE NAME

STATUS	SITE CODE	SITE NAME
INACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	81015	TEXTILES, FIBERS, CORDAGE (PRESERVATIVE/ADDITIVE INCORP)
INACTIVE	86003	HUMAN CLOTHING
INACTIVE	86005	HUMAN FOOTWEAR
INACTIVE	87006	LAUNDRY (HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87007	DIAPERS (PRESOAK, HOSPITAL, COMMERCIAL, HOUSEHOLD)
INACTIVE	87008	LAUNDRY EQUIPMENT
ACTIVE	88003	BATHROOM PREMISES
INACTIVE	88004	TOILET BOWLS AND URINALS
INACTIVE	88005	TOILET TANKS, OR WATER CLOSETS
ACTIVE	88006	PORTABLE TOILETS, LATRINE BUCKETS, AND CHEMICAL TOILETS
INACTIVE	88009	DIAPER PAILS
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
INACTIVE	90014	HEW (FDA/BVM) (FOR PEST CLAIMS ADMINISTERED BY FDA OR BVM)
INACTIVE	90016	NO SITE. USE WHEN NO SITE IS ASSOCIATED WITH PESTS
INACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
INACTIVE	97000	SURFACES TREATMENTS (ALL OR UNSPECIFIED)
INACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
INACTIVE	97002	HARD POROUS SURFACE TREATMENTS
ACTIVE	97005	WOOD SURFACE TREATMENTS (SEASONED/UNPAINTED)
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS



## SITES ON WHICH THIS CHEMICAL CAN BE USED 043901

## Glutaraldehyde

STATUS SITE CODE SITE NAME

STATUS	SITE CODE	SITE NAME
INACTIVE	28035	PASTURES (ALL OR UNSPECIFIED)
INACTIVE	28045	RANGELAND (ALL OR UNSPECIFIED)
INACTIVE	30000	FOREST TREES, FOREST LANDS (ALL OR UNSPECIFIED)
ACTIVE	52000	FARM ANIMALS (ALL OR UNSPECIFIED)
INACTIVE	53006	SWINE (MEAT ANIMAL)
INACTIVE	54000	PETS (ALL OR UNSPECIFIED)
ACTIVE	55000	POULTRY (ALL OR UNSPECIFIED)
ACTIVE	56001	ANIMALS (UNSPECIFIED)
INACTIVE	56005	HORSES
INACTIVE	56010	LABORATORY ANIMALS (ALL OR UNSPECIFIED)
INACTIVE	58000	COMMERCIAL EGG HANDLING EQUIPMENT
INACTIVE	58004	HATCHING EGG TREATMENT
INACTIVE	58005	HATCHING EGG HANDLING ROOMS
INACTIVE	58006	HATCHERY EQUIPMENT
INACTIVE	58007	HATCHERIES
ACTIVE	61003	FARM OR AGRICULTURAL EQUIPMENT (USE UNSPECIFIED)
ACTIVE	63001	HOUSEHOLD OR DOMESTIC DWELLINGS (INDOOR) (ALL OR UNSPEC)
INACTIVE	63007	HOUSEHOLD OR DOMESTIC DWELLING CONTENTS
ACTIVE	64003	WOOD PROTECTION TRT TO FINISHED WOOD PRODUCTS
ACTIVE	65000	AQUATIC AREAS (ALL OR UNSPECIFIED)
ACTIVE	65005	FOOD PROCESSING WATER SYSTEMS
ACTIVE	65008	PULP AND PAPER MILL SYSTEMS
ACTIVE	65010	REVERSE OSMOSIS WATER SYSTEMS
ACTIVE	65012	INDUSTRIAL WASTE DISPOSAL SYSTEMS
INACTIVE	65013	DRAINAGE SYSTEMS (ALL OR UNSPECIFIED)
ACTIVE	65018	AIR WASHER WATER SYSTEMS
ACTIVE	65019	COMMERCIAL AND INDUSTRIAL WATER COOLING TOWER SYSTEMS
ACTIVE	65020	EVAPORATIVE CONDENSER WATER SYSTEMS ?
ACTIVE	65025	SECONDARY OIL RECOVERY INJECTION WATER
ACTIVE	65026	SEWAGE SYSTEMS
ACTIVE	65028	HEAT EXCHANGER WATER SYSTEMS
ACTIVE	65029	INDUSTRIAL PROCESSING WATER
ACTIVE	65034	INDUSTR/COM LAKES/PONDS/RES W/NO HUMAN/WILDFL/ORNAMTL USE
ACTIVE	65038	INTERMITTENTLY FLOODED AREAS
INACTIVE	66000	UNCULTIVATED AGRICULTURAL AREAS (ALL OR UNSPECIFIED)
INACTIVE	67000	UNCULTIVATED NONAGRICULTURAL AREAS (ALL OR UNSPECIFIED)
ACTIVE	67003	BUILDINGS AND STRUCTURES (NONAGRICULTURAL-OUTDOOR)
INACTIVE	67004	RIGHTS-OF-WAY (HIGHWAY)
INACTIVE	67005	RIGHTS-OF-WAY (RAILROAD)
INACTIVE	67006	RIGHTS-OF-WAY (UTILITY)
INACTIVE	67009	INDUSTRIAL SITES
INACTIVE	67013	RIGHTS-OF-WAY (UNSPECIFIED)
INACTIVE	68009	FENCEROWS OR HEDGEROWS (ALL OR UNSPECIFIED)
ACTIVE	71000	FOOD PROCESSING, HANDLING AND STORAGE PLANTS/AREAS
INACTIVE	71005	MILK PROCESSING PLANTS
INACTIVE	71009	POULTRY MEAT PROCESSING PLANTS
INACTIVE	72000	EATING ESTABLISHMENTS (ALL OR UNSPECIFIED)
ACTIVE	74000	HOSPITALS AND RELATED INSTITUTIONS (ALL OR UNSPECIFIED)
INACTIVE	74009	HOSPITAL PATIENT PREMISES (E.G. CLINICS, WARDS)
ACTIVE	74010	HOSPITAL NONCRITICAL PREMISES (E.G. LABS, WAITING ROOMS)

Glut. sites



## SITES ON WHICH THIS CHEMICAL CAN BE USED 043901

## Glutaraldehyde

STATUS SITE CODE SITE NAME

ACTIVE	74011	HOSPITAL CRITICAL ITEMS (ITEMS ENTER BLOOD OR LIVING TISSUE)
ACTIVE	74012	HOSPITAL SEMICRITICAL ITEMS (ITEMS CONTACT MUCOSAL MEMBRANE)
ACTIVE	74013	HOSPITAL NONCRITICAL ITEMS (ITEMS CONTACT ONLY UNBROKEN SKIN)
INACTIVE	75001	BARBER AND BEAUTY SHOP INSTRUMENTS
ACTIVE	77000	COMMERCIAL INSTITUTIONAL AND INDUSTRIAL AREAS/PREMISES
ACTIVE	77002	COMMERCIAL, INSTITUTIONAL OR INDUSTRIAL EQUIPMENT
ACTIVE	81001	ADHESIVES (PRESERVATIVE INCORPORATION)
ACTIVE	81002	COATINGS (PRESERVATIVE INCORPORATION)
ACTIVE	81004	FUELS (ADDITIVE INCORPORATION)
ACTIVE	81007	METALWORKING CUTTING FLUIDS (PRESERVATIVE INCORPORATION)
ACTIVE	81008	OIL RECOVERY DRILL MUDS, PACKER FLUIDS (PRESERVATIVE INCORP)
ACTIVE	81009	PAINTS (LATEX) (IN-CAN PRESERVATION) (PRESERVATIVE INCORP)
ACTIVE	81010	PAPER AND PAPER PRODUCTS (PRESERVATIVE/ADDITIVE INCORP)
ACTIVE	81012	RESIN EMULSIONS (PRESERVATIVE/ADDITIVE INCORPORATION)
ACTIVE	81014	SPECIALITY INDUSTRIAL PRODUCTS (PRESERVATIVE INCORPORATION)
ACTIVE	81016	WET-END, INDUSTRIAL PROCESS CHEMICALS (PRESERVATIVE INCORP)
INACTIVE	86001	HUMAN BEDDING
INACTIVE	87008	LAUNDRY EQUIPMENT
ACTIVE	88003	BATHROOM PREMISES
ACTIVE	88004	TOILET BOWLS AND URINALS
ACTIVE	89000	REFUSE AND SOLID WASTE SITES (ALL OR UNSPECIFIED)
ACTIVE	89001	REFUSE AND SOLID WASTE CONTAINERS
ACTIVE	90017	HUMAN WASTES (TYPHOID STOOLS, FECES, URINE)
ACTIVE	90018	UNSPECIFIED SITES (DISINFECTANTS ONLY)
ACTIVE	97001	HARD NON-POROUS SURFACE TREATMENTS
ACTIVE	97002	HARD POROUS SURFACE TREATMENTS
ACTIVE	99000	PESTICIDES FOR MANUFACTURING, REFORMULATING OR REPACKAGE USE
ACTIVE	99001	PESTICIDE PRODUCTS FOR FORMULATION OF OTHER PRODUCTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

DEC 8 1998

ATTN: Gary Gaumer, President

SUBJECT: SYNERGIZE  
EPA File Symbol 66171-T  
Resubmission of Acute Toxicology Studies

Dear Mr. Gaumer:

The review of the resubmitted acute toxicity studies has developed the following profile:

acute oral toxicity	III	Acceptable
acute dermal toxicity	III	Acceptable
acute inhalation toxicity	II	Acceptable
primary eye irritation	I	Acceptable
primary skin irritation	I	Acceptable
dermal sensitization	Sensitizer Acceptable	

SIGNAL WORD: DANGER

See enclosed profiles for the full review status.

[REDACTED] is only retaining uses in enclosed sites. Therefore, your sites on your label are illegal until [REDACTED] to amend its manufacturing-use label to contain these sites. If you have any further questions, please contact Barbara Pringle at (703)308-6236.

Enclosures

Sincerely,

*Velma Noble*

Velma Noble  
Team Leader 31

Regulatory Management Branch 1  
Antimicrobial Division (7510C)

CONCURRENCES					
SYMBOL	7510C				
SURNAME	Pringle				
DATE	12-8-98				





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

October 21, 1998

MEMORANDUM:

Subject: Acute Toxicity Review for EPA Reg. No.: 66171-T / Synergize  
DP Barcode: D250301  
Case No: 063339

To: Velma Noble, PM 31 / Barbara Pringle  
Regulatory Management Branch  
Antimicrobials Division (7510W)

From: Ian Blackwell, Biologist  
Efficacy Evaluation Team  
Efficacy and Science Support Branch  
Antimicrobials Division (7510W)

*Ian Blackwell*

Through: Karen Hicks, Acting Team Leader  
Chemistry and Toxicology Team  
Efficacy and Science Support Branch  
Antimicrobials Division (7510W)

*Karen P. Hicks*  
*10/22/98*

Michele Wingfield, Branch Chief  
Efficacy and Science Support Branch  
Antimicrobials Division (7510W)

*Michele Wingfield*  
*10/23/98*

Applicant: Preserve International

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Glutaraldehyde	7
<u>Other Ingredient(s):</u>	93
Total:	100%

**BACKGROUND:** Preserve International has submitted a rebuttal to a 9/1/98 ESSB review of EPA file symbol 66171-T. In that review, the acute dermal toxicity and acute inhalation toxicity studies were rejected.

The testing laboratory disputes the findings as follows:

1. Acute dermal toxicity: The test material was a non-viscous liquid which could not easily be retained on the test site. Moderate to severe erythema (scores of 3 and 4) and severe edema (score of 4) were present one day following dosing, with erythema increasing to greater than 4 accompanied by severe eschar by day 7 and 14. The lab believes that these dermal scores clearly indicated that sufficient test material came in contact with test site.
2. Acute inhalation toxicity: The study was graded supplementary because it appeared that the 0.06 mg/L and 0.57 mg/L exposures were conducted twice each. The lab states that those two exposures were conducted only once each.

**RECOMMENDATIONS:** ESSB findings are:

1. The acute dermal toxicity study is acceptable. However, ESSB still wishes to encourage the application of the test material directly on the skin when appropriate.
2. The acute inhalation toxicity study is acceptable.

The acute toxicity profile for 66171-T is currently:

acute oral toxicity	III	acceptable
acute dermal toxicity	III	acceptable
acute inhalation toxicity	II	acceptable
primary eye irritation	I	acceptable
primary skin irritation	I	acceptable
dermal sensitization	sensitizer	acceptable

**LABELING:**

Date: 10/21/98

LABEL REVIEW SYSTEM

Page: 1

ID #: 066171-00007 SYNERGIZE

**RESTRICTED USE CLASSIFICATION RECOMMENDED:**

Due to eye irritation, dermal irritation toxicity categories.



The PM Team should decide if restricted use classification is necessary or if alternative labeling will allay the requirement for restricted use classification.

SIGNAL WORD: DANGER

PRECAUTIONARY STATEMENTS:

Corrosive. Causes irreversible eye damage or skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. Wear goggles or face shield. For handling activities during [insert applicable terms based on directions for use: airblast mistpower, pressure greater than 40 p.s.i. with fine droplets, smoke, mist, fog, aerosol or direct overhead] exposures, wear either a respirator with an organic vapor (OV) cartridge, or a canister with any N, P, R, or HE prefilter. For all other exposures, wear a dust/mist/filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N, P, R, or HE prefilter. Wear protective clothing and rubber gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention. For Category III, add "if symptoms persist."

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

NOTE TO PHYSICIAN: The proposed label should contain a Note to Physicians. Some suggested types of information include the following:

- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice.

Probable mucosal damage may contraindicate the use of gastric lavage.

restricted  
use ?

2/



## DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (§81-2, 870.1200)

**Product Manager:** 31  
**MRID No.:** 445695-02

**Reviewer:** Ian Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No. No.:** MB 97-5770.02

**Testing Laboratory:** MB Research Laboratories, Inc  
**Author:** Daniel R. Cerven

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, "yellow liquid", EPA file symbol 66171-T

**Species:** New Zealand White rabbits

**Weight:** males = 2.3-2.7 kg; females = 2.2-2.6 kg      **Age:** 9-11 weeks

**Source:** Ace Animals

### Summary:

1. The estimated LD<sub>50</sub> is greater than 2,000 mg/kg.
2. **Tox. Category:** III      **Classification:** acceptable

### Procedure (Deviation From §81-2):

- ☛ The test article was applied on top of a 4 layered gauze patch.
- ☛ QA was conducted by Bonnie Cerven.

### Results:

#### Reported Mortality

DOSAGE	(NUMBER DEATHS/NUMBER TESTED)		
	Males	Females	Combined
2000 mg/kg	1/5	1/5	2/10

**Observations:** Moderate to severe erythema, moderate to severe eschar, blackened areas of skin, pale areas of skin, lethargy, few feces, decrease mobility due to skin reactions, mucoid diarrhea, nose/mouth wet, ptosis, emaciated.

**Gross Necropsy Findings:** Skin abnormalities, emaciation; kidneys pale or pitted; stomach red or distended with brown fluid, intestines pale or distended with fluid, anogenital are wet, spleen smaller than normal, pale areas on liver.

## DATA REVIEW FOR ACUTE INHALATION TOXICITY (§81-3, 870.1300)

**Product Manager:** 31  
**MRID No.:** 445695-05

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**Report No.:** MB 97-5770.05

**Testing Laboratory:** MB Research Laboratories  
**Author:** Daniel R. Cerven, M.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, "yellow liquid"; EPA file symbol 66171-T  
**Concentration:** 0.06, 0.57 and 2.2 mg/L

**Species:** Wistar albino rats  
**Weight:** males = 209-299 g; females = 223-273 g  
**Age:** approx. 4-12 weeks  
**Source:** Ace Animals

### Summary:

- LC<sub>50</sub> (mg/L):**  
Males = 0.06 mg/L < LC<sub>50</sub> < 0.57 mg/L  
Females = 0.06 mg/L < LC<sub>50</sub> < 0.57 mg/L  
Combined = 0.06 mg/L < LC<sub>50</sub> < 0.57 mg/L
- The estimated LC<sub>50</sub> is between 0.06 and 0.57 mg/liter.**
- MMAD:** see table #2
- Tox. Category:** II                      **Classification:** acceptable

### Procedure (Deviation From §81-3):

### Results:

Table #1

Reported Mortality

Exposure Concentration (mg/L)	(NUMBER DEATHS/NUMBER TESTED)		
	Males	Females	Combined
0.06	0/5	0/5	0/10
0.57	5/5	4/5	9/10
2.2	5/5	5/5	10/10



Table #2

Chamber Atmosphere		
Dose Level	MMAD	GSD
0.06 mg/L	1.01 $\mu\text{m}$	1.97 $\mu\text{m}$
0.57 mg/L	0.90 $\mu\text{m}$	2.585 $\mu\text{m}$
2.2 mg/L	1.10 $\mu\text{m}$	2.16 $\mu\text{m}$

Table #3

Chamber Environment			
Chamber Volume	57 liters	57 liters	57 liters
Airflow	35 lpm	35 lpm	35 lpm
Temperature	20-21° C	20 ° C	20° C
Relative Humidity	32-35%	36%	46-48%

**Clinical Observations:** Lethargy, flaccid, diarrhea, piloerection, prostrate, chromo-dacryorrhea, dyspnea, bloated abdomen, emaciation, **dead**, eyes closed, nose/mouth area wet and/or red, eyes crusting/with lacrimation, appears to be licking inside of mouth, eyes appear opaque, alopecia on anogenital area, inability to right self.

**Gross Necropsy Findings:** eyes opaque and crusted, anogenital area wet or with alopecia abdomen bloated; lungs darker than normal, with red areas; lungs with red areas; liver with pale areas or darker than normal; stomach red or distended with gas; intestines with red areas, spleen smaller than normal, spleen pale.

# MB Research Laboratories

---

1765 wentz road, p.o. box 178  
spinnerstown, pa 18968  
phone (215) 536-4110  
fax (215) 536-1816  
mbres@erter.net

October 1, 1998

Velma Noble, Team Leader 31  
Regulatory Management Branch I  
Antimicrobial Division (7510W)  
US EPA  
Washington, DC 20460

RE: SYNERGIZE  
EPA FILE SYMBOL 66171-t  
Submission of Acute Toxicology Studies

Dear Ms. Noble:

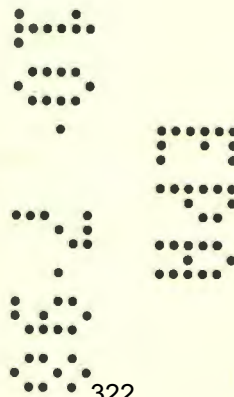
This letter is in response to your letter to Preserve International dated September 9, 1998 regarding the above captioned acute toxicology studies. You indicate that the acute dermal toxicity study is unacceptable and the acute inhalation study is supplementary. The following information addresses these issues:

- **Acute Dermal Toxicity Study**

**EPA Findings:** You state the study is *unacceptable* because the test material was applied to the top of the gauze covering and first absorbed through the gauze before coming in contact with the test site. Apparently it is your scientific opinion that an insufficient amount of the test material came in contact with the test site.

**Response:** The test material in question was a non-viscous liquid which could not be easily retained on the test site if it were applied directly to the skin. Accordingly, the indicated dose was applied on top of a 4-layered gauze patch to aid in retention of the substance on the test area. The gauze patch is very thin and quite porous and does not hamper contact of the test article with the skin. In addressing questions regarding dermal toxicity evaluations, the EPA Guidance Document Conduct of Acute Toxicity Studies (OPP-00440, FRL-5378-6), p. 11, describes the purpose of the gauze as a *reservoir* to hold the material in place. In further support of this dosing method, please refer to the dermal reactions documented on study days 1, 7 and 14. Moderate to severe erythema (scores of 3 and 4) and severe edema (score of 4) were present one day following dosing, with erythema increasing to greater than 4 accompanied by severe eschar by day 7 and 14. I believe these dermal scores clearly indicated that sufficient test material came in contact with the test site.

MB





October 1, 1998

Velma Noble, Team Leader 31  
Regulatory Management Branch I

page -2-

- **Acute Inhalation Toxicity Study**

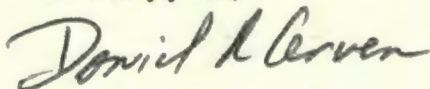
**EPA Findings:** You state the study is *supplementary and currently unacceptable* because you assume from the final report that the 0.06 mg/L and the 0.57 mg/L exposures were each conducted twice.

**Response:** These exposure levels were each conducted one time only. Perhaps you are assuming that the two particle size runs conducted at two of the exposure levels indicate that the actual exposure was conducted twice. This, of course, is not the case. There can be several particle size runs at each exposure level.

I trust this information will satisfactorily address your concerns regarding the acute dermal and the acute inhalation toxicity studies and that the status of these studies will be changed to *acceptable*.

Should you require any further information, please call me.

Sincerely yours,



Daniel R. Cerven, M.S.  
Study Director

DRC



9/17/98

NOTE TO FILE / REVIEWER

Please check the gluteraldehyde label (source production CSF [REDACTED] and determine where the source gluteraldehyde label allows end use products to be formulated into and for use on the sites listed on this label (i.e. animal + poultry housing, nurseries, swine facilities ect.).

If the source gluteraldehyde label does not allow it, then we must object to this registration and inform the registrant that the gluteraldehyde source label must be amended to include the proposed sites before we can register this product

D Edwards



**FQPA**

Reviewer ID

B PRINGLE

Submission No.

5544639

Data Package No.

D247096

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No. 66171-T PM 31Action Code 187

|10| Descriptor (Amend/Resubmissions only) \_\_\_\_\_

|5| Intrastate Call-in ☐ (Y) Yes☐ (N) No

|15| Child-resistant Packaging

☐ (C) Certification☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional☐ (2) Unconditional☐ (R) Non-residential Use Only☐ (N) Not-Applicable

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted☐ (R) Restricted☐ (G) General☐ (N) Not Classified

|35| Date on Application:

10/5/28/98  
MO DAY YR

|04| EPA Received Date:

10/5/28/98  
MO DAY YR

|40| Date Received by PM

10/6/23/98  
MO DAY YR

|80| Method of Support:

☐ (1) Cite-All☐ (6) Owner Submission☐ (4) Not Applicable☐ (7) Total Submission☐ (5) Not Submitted☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFCB

DATE  
SENTDUE  
DATEDATE  
RETURNEDRESPONSE  
CODERESPONSE  
DATE|115| FINAL Response  
ACTION Code 11

|125| Response

09/09/98  
MO DAY YR75-DAY RESPONSE DUE DATE: ☐ (Y) Yes☐ (N) No

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SEP 9 1998

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

SUBJECT: SYNERGIZE  
EPA FILE SYMBOL 66171-T  
Submission of Acute Toxicology Studies

ATTN: Gary Gaumer, President

Dear Mr. Gaumer:

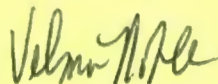
A review of the acute toxicology data submitted to the Agency has been assigned the

following acute toxicity profile:	acute oral toxicity	III	Acceptable
	acute dermal toxicity		Unacceptable
	acute inhalation toxicity		Supplementary
	primary eye irritation	I	Acceptable
	primary skin irritation	I	Acceptable
	dermal sensitization		Sensitizer acceptable

Please see enclosed studies for further clarification of your deficiencies. If you have any further questions, contact Barbara Pringle at (703)308-6236.

Enclosures

Sincerely,



Velma Noble  
Team Leader 31  
Regulatory Management Branch I  
Antimicrobial Division (7510W)

CONCURRENCES							
SYMBOL	7510W						
SURNAME	Pringle						
DATE	9-8-98						



# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL \* PSEUDOMONACIDAL \* SALMONELLACIDAL

*Synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.*

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%  
Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%

TOTAL .....100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

EPA Registration No.: 66171-

EPA Establishment No.: 66171-TN-001



Zephyr Cove, NV 89448



Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607

# SYNERGIZE DRAFT LABEL

April 22, 1998

Page 2

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing moderate levels of organic matter.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at the use dilution (1:256).

### A.O.A.C. Use-Dilution Method

Staphylococcus aureus A.T.C.C. 6538

Salmonella choleraesuis A.T.C.C. 10708

### A.O.A.C. Use-Dilution Method

Pseudomonas aeruginosa A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

SYNERGIZE a synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging, product transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.

## GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce SYNERGIZE per gallon water (1:256). Apply with cloth, sponge mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of hatcheries - in hatcheries & setters, chick-go-round, traywashing machines, central and portable fogging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick busses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in moderate levels of organic matter.

BOOT/SOUE & WHEEL WASH SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMALFOGGING

- 1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.
- 2) Double check to be sure all people, livestock and pets have vacated the building.
- 3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.
- 4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.
- 5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved



# SYNERGIZE DRAFT LABEL

April 22, 1998

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES, CALF PENS AND VEHICLES:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatches, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful if swallowed. If inhaled remove to fresh air. Avoid contamination of food. Protective gloves are recommended when working with solution.

## STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Net Contents: \_\_\_\_\_ U.S. Gallons

September 1, 1998

MEMORANDUM

Subject: EPA Reg. No.: 66171-T / Synergize  
DP Barcode: D247096  
Case No: 063339

From: Ian Blackwell, Biologist  
Team 2  
Product Science Branch  
Antimicrobials Division (7510W)

To: Velma Noble, PM 31 / Barbara Pringle  
Regulatory Management Branch  
Antimicrobials Division (7510W)

Through: Karen Hicks, Acting Team Leader  
Toxicology & Chemistry Team  
Product Science Branch  
Antimicrobials Division (7510W)

Applicant: Preserve International

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Alkyl (C12, 67%; C14, 25%; C16, 7%; C18, 1%) dimethyl	
benzyl ammonium chloride	26
Glutaraldehyde	7
<u>Other Ingredient(s):</u>	<u>67</u>
Total:	100%



BACKGROUND: Preserve International has submitted a complete set of acute toxicity studies in support of "Synergize." These studies were conducted by MB Research Laboratories, Inc. The MRID numbers are 445695-01 through 445695-06.

RECOMMENDATIONS: ESSB findings are:

1. The acute oral toxicity is acceptable. However, the lab did not determine an LD<sub>50</sub> or even bracket one. However, they did determine that the LD<sub>50</sub> is above 500 mg/kg. The registrant and lab are fortunate that this practice agrees with the Agency's coming acute oral toxicity Limit Test dosage of 500 mg/kg. This places the LD<sub>50</sub> is toxicity category III.
2. The primary eye irritation, primary skin irritation and dermal sensitization studies are acceptable and sufficient to support the registration of "Synergize."
3. The acute dermal toxicity study is unacceptable and must be reconducted. The problem with this study is that the test material was applied first to the *top* of the gauze covering. Thus, almost all of the liquid test material had to be first absorbed through the gauze before it could come into contact with the skin. The preferred method is for the test material to be applied to the test site and covered with gauze as necessary.
4. The acute inhalation toxicity study is supplementary and is currently not acceptable to support this product. The problem is that the 0.06 mg/L and 0.57 mg/l exposures were both conducted twice. The report was not clear as to why this was the situation. In order for this study to be reconsidered, the lab must clearly explain why the 0.06 mg/L and 0.57 mg/L runs were conducted twice. The lab should also explain the effect that this practice had on the overall study.

Note to PM: [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

The acute toxicity profile for 66171-T is currently:

acute oral toxicity	III	acceptable
acute dermal toxicity		unacceptable
acute inhalation toxicity		supplementary
primary eye irritation	I	acceptable
primary skin irritation	I	acceptable
dermal sensitization	sensitizer	acceptable

LABELING:

ID #: 066171-00007 SYNERGIZE

RESTRICTED USE CLASSIFICATION RECOMMENDED:

Due to eye irritation and dermal irritation toxicity categories.

The PM Team should decide if restricted use classification is necessary or if alternative labeling will allay the requirement for restricted use classification.

SIGNAL WORD: DANGER

PRECAUTIONARY STATEMENTS:

Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield. Wear protective clothing and rubber gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

NOTE TO PHYSICIAN:

The proposed label should contain a Note to Physicians. Some suggested types of information include the following:

- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice.

Probable mucosal damage may contraindicate the use of gastric lavage.



## DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§ 81-1, 870.1100)

**Product Manager:** 31  
**MRID No.:** 445695-01

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.01

**Testing Laboratory :** MB Research Laboratories, Inc.  
**Authors :** Daniel R. Cerven, M.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, EPA file symbol 66171-T; "yellow liquid"

**Species:** Wistar albino rat  
**Age:** approx. 4-12 weeks  
**Weight:** males = 231-289g; females = 201-238 g  
**Source:** Ace Animals

### Conclusion:

1. **LD<sub>50</sub> (mg/kg):**  

**Males** > 500  
**Females** > 500  
**Combined** > 500
2. **The estimated LD<sub>50</sub> is greater than 500 mg/kg of body weight**
3. **Tox. Category:** III                      **Classification:** acceptable

### Procedure (Deviations from §81-1):

### Results:

Dosage (mg/kg)	(Number Deaths/Number Tested)		
	Males	Females	Combined
50	0/5	0/5	0/10
500	1/5	1/5	2/10

**Observations:** Dyspnea, lethargy, anogenital soiling, bloated abdomen, diarrhea, wetness of anogenital area, localized alopecia, red staining of nose/mouth area.

**Gross Necropsy:** Alopecia, nose/mouth stained brown, anogenital area wet or with alopecia, dark lungs, dark liver, stomach red and/or distended with gas; intestines reddened, with yellow areas, with gas or mucous, or distended with gas and/or mucous.





## DATA REVIEW FOR ACUTE INHALATION TOXICITY (§81-3, 870.1300)

**Product Manager:** 31  
**MRID No.:** 445695-05

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**Report No.:** MB 97-5770.05

**Testing Laboratory:** MB Research Laboratories  
**Author:** Daniel R. Cerven, M.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, "yellow liquid"; EPA file symbol 66171-T  
**Concentration:** 0.06, 0.57 and 2.2 mg/L

**Species:** Wistar albino rats  
**Weight:** males = 209-299 g; females = 223-273 g  
**Age:** approx. 4-12 weeks  
**Source:** Ace Animals

### Summary:

1.  $LC_{50}$  (mg/L):                      Males =  
   Females =  
   Combined =
2. The estimated  $LC_{50}$  is
3. MMAD:
4. Tox. Category:    Classification: supplementary

### Procedure (Deviation From §81-3):

☛ The 0.06 mg/L and 0.57 mg/L exposures had two runs each.

### Results:

#### Reported Mortality

Exposure Concentration (mg/L)	(NUMBER DEATHS/NUMBER TESTED)		
	Males	Females	Combined
0.06	0/5	0/5	0/10
0.57	5/5	4/5	9/10
2.2	5/5	5/5	10/10

Chamber Atmosphere		
Dose Level	MMAD	GSD
0.06 mg/L	$\mu\text{m}$	$\mu\text{m}$
0.57 mg/L	$\mu\text{m}$	$\mu\text{m}$
2.2 mg/L	$\mu\text{m}$	$\mu\text{m}$

Chamber Environment			
Chamber Volume	57 liters	57 liters	57 liters
Airflow	35 lpm	35 lpm	35 lpm
Temperature	20-21° C	20 ° C	20° C
Relative Humidity	32-35%	36%	46-48%

**Clinical Observations:** Lethargy, flaccid, diarrhea, piloerection, prostrate, chromodacryorrhea, dyspnea, bloated abdomen, emaciation, **dead**, eyes closed, nose/mouth area wet and/or red, eyes crusting/with lacrimation, appears to be licking inside of mouth, eyes appear opaque, alopecia on anogenital area, inability to right self.

**Gross Necropsy Findings:** eyes opaque and crusted, anogenital area wet or with alopecia abdomen bloated; lungs darker than normal, with red areas; lungs with red areas; liver with pale areas or darker than normal; stomach red or distended with gas; intestines with red areas, spleen smaller than normal, spleen pale.



# DATA REVIEW FOR PRIMARY EYE IRRITATION TESTING (§81-4, 870.2400)

Product Manager: 31  
MRID No.: 445695-04

Reviewer: Ian Blackwell  
Study Completion Date: 4/29/97  
MB Project No.: 97-5770.04

Testing Laboratory: MB Research Laboratories, Inc.  
Author(s): Daniel R. Cerven

Quality Assurance (40 CFR §160.12): Included

Test Material: Synergize; "yellow liquid"

Dosage: 0.1 mL

Species: New Zealand White rabbit

Sex: 1 male + 5 females

Weight: 2.3-2.6 kg

Age: 9-11 weeks

Source: Ace Animals, Boyertown, PA

## Summary:

1. Toxicity Category: I (corrosive)
2. Classification: acceptable

## Procedure (Deviations From §81-4):

☛ The report was vague about the corrosive effects observed.

## Results:

Observations	(number "positive"/number tested)							
	Hour	Days						
	1	1	2	3	4	7	14	21
Corneal Opacity	4/6	6/6	6/6	6/6	---	---	---	---
Iritis	6/6	6/6	6/6	6/6	—	—	—	—
Conjunctivae								
Redness	6/6	6/6	6/6	6/6	—	—	—	—
Chemosis	6/6	6/6	6/6	6/6	—	—	—	—
Discharge	6/6	6/6	6/6	6/6	—	—	—	---

--- = no observations at this point

Also observed were white discharge, severe conjunctival irritation and ocular corrosion.

**DATA REVIEW FOR SKIN IRRITATION TESTING (§81-5, 870.2500)**

**Product Manager:** 31  
**MRID No.:** 445695-03

**Reviewer:** Ian Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.03

**Testing Laboratory:** MB Research Laboratories, Inc.  
**Author:** Lori A. Keiffer, B.A.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize; "yellow liquid"  
**Dosage:** 0.5 mL

**Species:** New Zealand White rabbits

**Age:** 13-15

**Sex:** 6 males

**Source:** Ace Animals

**Weight:** 2.3-2.7 kg

**Summary:**

1. **Toxicity Category:** I (corrosive)
2. **Classification:** acceptable

**Procedure (Deviations From §81-5):**

**Results:** Well-defined erythema 1 hour after exposure. Well-defined to moderate erythema at 24 hours. Brown areas noted in 6/6 at 72 hours. Moderate eschar at 72 hours and day 7. Moderate edema on day 7. Necrosis of skin (indicative of dermal injuries in depth) in all animals on day 7.

**Special Comments:** No systemic abnormalities were noted.



## **DATA REVIEW FOR DERMAL SENSITIZATION TESTING (§81-6, 870.2600)**

**Product Manager:** 31  
**MRID No.:** 445695-06

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.06

**Testing Laboratory:** MB Research Laboratories  
**Author:** Theresa Hoff

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize; "yellow liquid"  
**Positive Control Material:** DNCB

**Species:** Hartley Albino guinea pigs  
**Weight:** 303-480 g  
**Source:** Ace Animals

**Age:** 5-7 weeks

**Method:** Buehler Method

### **Summary:**

1. **This Product is a dermal sensitizer.**
2. **Classification:** acceptable

### **Procedure (Deviation From §81-6):**

**Procedure:** The test animals received 100% test material for induction #1. Due to extreme reactions following induction #1, the induction concentration was reduced to 10% for induction treatments 2 and 3. Treatment were applied in a 25 mm Hilltop Chamber. For the naive control group, five animals were left untreated for five weeks.

For challenge, fourteen days after the last induction treatment, animals in Groups 1 and 2 were challenge using the same procedure reported above using 0.4 mL of 2.5% test material.

**Results:** Strong erythema and eschar were noted in all test sites 24 hours after the first induction treatment. Moderate erythema was displayed in all test sites following induction treatment #2 and in 8/10 sites after induction treatment #3.

Twenty-four hours after challenge, 2/10 test material-induced animals displayed moderate erythema, 4/10 faint confluent erythema and 3/10 very faint, usually nonconfluent erythema. At this same point 1/5 naive control animals displayed very faint, nonconfluent erythema.

The positive control study displayed sensitization: a mean Incidence Index of 1.0 during induction and an I.I. of 1.7 following challenge.



## ACUTE TOX ONE-LINER

1. PC CODE:

2. CURRENT DATE:

3. TEST MATERIAL:

Study/Species/Lab/ Study#/Date	MRID No.	Results	Tox. Cat.	Core Grade
acute oral toxicity /		LD <sub>50</sub> (mg/kg)		
acute dermal toxicity /		LD <sub>50</sub> (mg/kg)		
acute inhalation toxicity /		LC <sub>50</sub> (mg/L)		
primary eye irritation /				
primary skin irritation /				
dermal sensitization /			---	

A = Acceptable

U = Unacceptable

S = Supplementary

V = self-Validated



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

September 1, 1998

MEMORANDUM

Subject: EPA Reg. No.: 66171-T / Synergize  
DP Barcode: D247096  
Case No: 063339

From: Ian Blackwell, Biologist  
Team 2  
Product Science Branch  
Antimicrobials Division (7510W)

To: Velma Noble, PM 31 / Barbara Pringle  
Regulatory Management Branch  
Antimicrobials Division (7510W)

Through: Karen Hicks, Acting Team Leader  
Toxicology & Chemistry Team  
Product Science Branch  
Antimicrobials Division (7510W)

*Karen Hicks*  
*9/1/98*

Applicant: Preserve International

FORMULATION FROM LABEL:



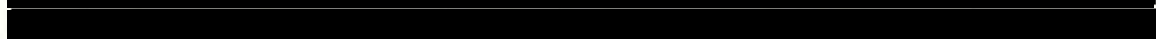

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Alkyl (C12, 67%; C14, 25%; C16, 7%; C18, 1%) dimethyl benzyl ammonium chloride	26
Glutaraldehyde	7
<u>Other Ingredient(s):</u>	<u>67</u>
Total:	100%



BACKGROUND: Preserve International has submitted a complete set of acute toxicity studies in support of "Synergize." These studies were conducted by MB Research Laboratories, Inc. The MRID numbers are 445695-01 through 445695-06.

RECOMMENDATIONS: ESSB findings are:

1. The acute oral toxicity is acceptable. However, the lab did not determine an LD<sub>50</sub> or even bracket one. However, they did determine that the LD<sub>50</sub> is above 500 mg/kg. The registrant and lab are fortunate that this practice agrees with the Agency's coming acute oral toxicity Limit Test dosage of 500 mg/kg. This places the LD<sub>50</sub> is toxicity category III.
2. The primary eye irritation, primary skin irritation and dermal sensitization studies are acceptable and sufficient to support the registration of "Synergize."
3. The acute dermal toxicity study is unacceptable and must be reconducted. The problem with this study is that the test material was applied first to the *top* of the gauze covering. Thus, almost all of the liquid test material had to be first absorbed through the gauze before it could come into contact with the skin. The preferred method is for the test material to be applied to the test site and covered with gauze as necessary.
4. The acute inhalation toxicity study is supplementary and is currently not acceptable to support this product. The problem is that the 0.06 mg/L and 0.57 mg/l exposures were both conducted twice. The report was not clear as to why this was the situation. In order for this study to be reconsidered, the lab must clearly explain why the 0.06 mg/L and 0.57 mg/L runs were conducted twice. The lab should also explain the effect that this practice had on the overall study.

Note to PM:   
  
  
 ✓

The acute toxicity profile for 66171-T is currently:

acute oral toxicity	III	acceptable
acute dermal toxicity		unacceptable
acute inhalation toxicity		supplementary
primary eye irritation	I	acceptable
primary skin irritation	I	acceptable
dermal sensitization	sensitizer	acceptable

\*Internal deliberative communication\*

Restricted use ?

LABELING:

ID #: 066171-00007 SYNERGIZE

RESTRICTED USE CLASSIFICATION RECOMMENDED:

Due to eye irritation and dermal irritation toxicity categories.

The PM Team should decide if restricted use classification is necessary or if alternative labeling will allay the requirement for restricted use classification.

SIGNAL WORD: DANGER

PRECAUTIONARY STATEMENTS:

Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield. Wear protective clothing and rubber gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

STATEMENT OF PRACTICAL TREATMENT (SOPT):

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

NOTE TO PHYSICIAN:

The proposed label should contain a Note to Physicians. Some suggested types of information include the following:

- technical information on symptomatology;
- use of supportive treatments to maintain life functions;
- medicine that will counteract the specific physiological effects of the pesticide;
- company telephone number to specific medical personnel who can provide specialized medical advice.

Probable mucosal damage may contraindicate the use of gastric lavage.



## DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (§ 81-1, 870.1100)

**Product Manager:** 31  
**MRID No.:** 445695-01

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.01

**Testing Laboratory :** MB research Laboratories, Inc.  
**Authors :** Daniel R. Cerven, M.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, EPA file symbol 66171-T; "yellow liquid"

**Species:** Wistar albino rat  
**Age:** approx. 4-12 weeks  
**Weight:** males = 231-289g; females = 201-238 g  
**Source:** Ace Animals

### Conclusion:

1. **LD<sub>50</sub> (mg/kg):**                      **Males > 500**  
   **Females > 500**  
   **Combined > 500**
2. **The estimated LD<sub>50</sub> is greater than 500 mg/kg of body weight**
3. **Tox. Category:**                      **III**                      **Classification: acceptable**

### Procedure (Deviations from §81-1):

### Results:

Dosage (mg/kg)	(Number Deaths/Number Tested)		
	Males	Females	Combined
50	0/5	0/5	0/10
500	1/5	1/5	2/10

**Observations:** Dyspnea, lethargy, anogenital soiling, bloated abdomen, diarrhea, wetness of anogenital area, localized alopecia, red staining of nose/mouth area.

**Gross Necropsy:** Alopecia, nose/mouth stained brown, anogenital area wet or with alopecia, dark lungs, dark liver, stomach red and/or distended with gas; intestines reddened, with yellow areas, with gas or mucous, or distended with gas and/or mucous.

## 346



# DATA REVIEW FOR ACUTE INHALATION TOXICITY (§81-3, 870.1300)

**Product Manager:** 31  
**MRID No.:** 445695-05

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**Report No.:** MB 97-5770.05

**Testing Laboratory:** MB Research Laboratories  
**Author:** Daniel R. Cerven, M.S.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize, "yellow liquid"; EPA file symbol 66171-T  
**Concentration:** 0.06, 0.57 and 2.2 mg/L

**Species:** Wistar albino rats  
**Weight:** males = 209-299 g; females = 223-273 g  
**Age:** approx. 4-12 weeks  
**Source:** Ace Animals

## Summary:

1. **LC<sub>50</sub> (mg/L):**                      **Males =**  
   **Females =**  
   **Combined =**
2. **The estimated LC<sub>50</sub> is**
3. **MMAD:**
4. **Tox. Category:**                      **Classification:** supplementary

## Procedure (Deviation From §81-3):

☐ The 0.06 mg/L and 0.57 mg/L exposures had two runs each.

## Results:

### Reported Mortality

Exposure Concentration (mg/L)	(NUMBER DEATHS/NUMBER TESTED)		
	Males	Females	Combined
0.06	0/5	0/5	0/10
0.57	5/5	4/5	9/10
2.2	5/5	5/5	10/10

Chamber Atmosphere		
Dose Level	MMAD	GSD
0.06 mg/L	$\mu\text{m}$	$\mu\text{m}$
0.57 mg/L	$\mu\text{m}$	$\mu\text{m}$
2.2 mg/L	$\mu\text{m}$	$\mu\text{m}$

Chamber Environment			
Chamber Volume	57 liters	57 liters	57 liters
Airflow	35 lpm	35 lpm	35 lpm
Temperature	20-21° C	20 ° C	20° C
Relative Humidity	32-35%	36%	46-48%

**Clinical Observations:** Lethargy, flaccid, diarrhea, piloerection, prostrate, chromodacryorrhea, dyspnea, bloated abdomen, emaciation, **dead**, eyes closed, nose/mouth area wet and/or red, eyes crusting/with lacrimation, appears to be licking inside of mouth, eyes appear opaque, alopecia on anogenital area, inability to right self.

**Gross Necropsy Findings:** eyes opaque and crusted, anogenital area wet or with alopecia abdomen bloated; lungs darker than normal, with red areas; lungs with red areas; liver with pale areas or darker than normal; stomach red or distended with gas; intestines with red areas, spleen smaller than normal, spleen pale.



# DATA REVIEW FOR PRIMARY EYE IRRITATION TESTING (§81-4, 870.2400)

**Product Manager:** 31  
**MRID No.:** 445695-04

**Reviewer:** Ian Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** 97-5770.04

**Testing Laboratory:** MB Research Laboratories, Inc.  
**Author(s):** Daniel R. Cerven

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize; "yellow liquid"

**Dosage:** 0.1 mL

**Species:** New Zealand White rabbit

**Sex:** 1 male + 5 females

**Weight:** 2.3-2.6 kg

**Age:** 9-11 weeks

**Source:** Ace Animals, Boyertown, PA

## Summary:

1. **Toxicity Category:** I (corrosive)

2. **Classification:** acceptable

## Procedure (Deviations From §81-4):

☛ The report was vague about the corrosive effects observed.

## Results:

Observations	(number "positive"/number tested)							
	Hour	Days						
	1	1	2	3	4	7	14	21
Corneal Opacity	4/6	6/6	6/6	6/6	---	---	---	---
Iritis	6/6	6/6	6/6	6/6	---	---	---	---
Conjunctivae								
Redness	6/6	6/6	6/6	6/6	---	---	---	---
Chemosis	6/6	6/6	6/6	6/6	---	---	---	---
Discharge	6/6	6/6	6/6	6/6	---	---	---	---

--- = no observations at this point

Also observed were white discharge, severe conjunctival irritation and ocular corrosion.

**DATA REVIEW FOR SKIN IRRITATION TESTING (§81-5, 870.2500)**

**Product Manager:** 31  
**MRID No.:** 445695-03

**Reviewer:** Ian Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.03

**Testing Laboratory:** MB Research Laboratories, Inc.  
**Author:** Lori A. Keiffer, B.A.

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize; "yellow liquid"  
**Dosage:** 0.5 mL

**Species:** New Zealand White rabbits

**Age:** 13-15

**Sex:** 6 males

**Weight:** 2.3-2.7 kg

**Source:** Ace Animals

**Summary:**

1. **Toxicity Category:** I (corrosive)
2. **Classification:** acceptable

**Procedure (Deviations From §81-5):**

**Results:** Well-defined erythema 1 hour after exposure. Well-defined to moderate erythema at 24 hours. Brown areas noted in 6/6 at 72 hours. Moderate eschar at 72 hours and day 7. Moderate edema on day 7. Necrosis of skin (indicative of dermal injuries in depth) in all animals on day 7.

**Special Comments:** No systemic abnormalities were noted.



## **DATA REVIEW FOR DERMAL SENSITIZATION TESTING (§81-6, 870.2600)**

**Product Manager:** 31  
**MRID No.:** 445695-06

**Reviewer:** I. Blackwell  
**Study Completion Date:** 4/29/97  
**MB Project No.:** MB 97-5770.06

**Testing Laboratory:** MB Research Laboratories  
**Author:** Theresa Hoff

**Quality Assurance (40 CFR §160.12):** Included

**Test Material:** Synergize; "yellow liquid"  
**Positive Control Material:** DNCB

**Species:** Hartley Albino guinea pigs  
**Weight:** 303-480 g  
**Source:** Ace Animals

**Age:** 5-7 weeks

**Method:** Buehler Method

### **Summary:**

1. **This Product is a dermal sensitizer.**
2. **Classification:** acceptable

### **Procedure (Deviation From §81-6):**

**Procedure:** The test animals received 100% test material for induction #1. Due to extreme reactions following induction #1, the induction concentration was reduced to 10% for induction treatments 2 and 3. Treatment were applied in a 25 mm Hilltop Chamber. For the naive control group, five animals were left untreated for five weeks.

For challenge, fourteen days after the last induction treatment, animals in Groups 1 and 2 were challenge using the same procedure reported above using 0.4 mL of 2.5% test material.

**Results:** Strong erythema and eschar were noted in all test sites 24 hours after the first induction treatment. Moderate erythema was displayed in all test sites following induction treatment #2 and in 8/10 sites after induction treatment #3.

Twenty-four hours after challenge, 2/10 test material-induced animals displayed moderate erythema, 4/10 faint confluent erythema and 3/10 very faint, usually nonconfluent erythema. At this same point 1/5 naive control animals displayed very faint, nonconfluent erythema.







### Certification with Respect to Citation of Data

Applicants Name and Address

Preserve International  
PO Box 3135  
Turlock, CA 95301

new data  
Corp.

EPA File Symbol/Registration Number

66171-T

Product Name

Synergize

Date of Application

11/24/97

**NOTE:** If your product is a 100% repackaging of another EPA-registered product that you purchase, and is labeled for the same uses, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product that is identical or substantially similar and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application. (Check the appropriate boxes, in items 2 and 3, or 4 below that pertain to your application.)

2. I certify that, for each study cited in support of this application for registration that is an exclusive use study.

☒ I am the original submitter\*; or

☐ I have obtained the written permission of the original submitter for \_\_\_\_\_, which is  
(insert name of chemical)  
\_\_\_\_\_ (for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*

3. I certify that, for each study cited in support of this application for registration that is not an exclusive use study;

a. ☒ I am the original data submitter\*; or

☐ I have obtained the written permission of the original data submitter for \_\_\_\_\_, which is  
(insert name of chemical)  
\_\_\_\_\_ (for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*; or

b. ☐ I have notified in writing the companies \_\_\_\_\_ for \_\_\_\_\_ that  
(insert names of companies) (insert name of chemical)

have submitted data I have cited to support this application and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(F) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); and (b) Commence negotiations to determine which data are subject to the compensation requirement of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are:

Companies \_\_\_\_\_ for \_\_\_\_\_ (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name)  
listed on the Pesticide Data Submitters List for all active ingredients contained in my product (cite-all  
method or cite-all option under Selective Method\*). (Also, sign the General Offer Statement below.)  
Companies \_\_\_\_\_ for \_\_\_\_\_ (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name).  
that have submitted the studies which I have cited (Selective method\*).

4. ☐ I certify that for each study cited in support of this application I am not required to offer data compensation or obtain written permission because all time periods for exclusive use and data compensation have expired.

\* A Data Matrix identifying these studies is attached. (Note: a Data Matrix is not required under the cite-all method)

Signature

Name and Title

Mary Gaumer/President

Date

4.22.98

General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required.

Signature

Name and Title

Date





445695-00

World Headquarters 2524 Industrial Rowe, Turlock, CA 95380 • Bus: (209) 664-1607 • Fax: (209) 664-1728 • USA: (800) 995-1607  
Tennessee Operation 1213 Empire Avenue, Memphis, TN 38107 • Bus: (901) 272-0031 • Fax: (901) 726-6446

~~April 22, 1998~~ MAY 28, 1998

Ms. Barbara Pringle  
USEPA  
Antimicrobial Division  
Registration Division (7510W)  
2800 Crystal Drive, 6<sup>th</sup> Floor  
Arlington, VA 22201

MRID's

Re: Synergize, EPA File Symbol Number 66171-T

Dear Ms. Pringle:

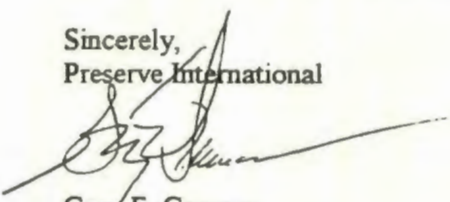
In response to our telephone conversation of April 22, 1998, please find the enclosed:

- 1) Five (5) copies of the revised Master Draft Label with all the requested changes.
- 2) Three copies of the requested toxicology data including:

44569501	a)	Volume I, Single Dose Oral Toxicity in Rats/LD 50 in Rats
44569502	b)	Volume II, Acute Dermal Toxicity in Rabbits/LD 50 in Rabbits
44569503	c)	Volume III, Primary Dermal Irritation in Rabbits
44569504	d)	Volume IV, Primary Eye Irritation/Corrosion in Rabbits
44569505	e)	Volume V, Acute Inhalation Toxicity in Rats/LC50 in Rats
44569506	f)	Volume VI, Delayed Contact Dermal Sensitization Test-Buehler Method
- 3) A revised Certification with Respect to Citation of Data

Thank you for all your help in the registration process.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President  
Phone: (209) 664-1607  
Email: Gaumer1@aol.com



label comments  
to address,

# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL \* PSEUDOMONACIDAL \* SALMONELLACIDAL

repeat  
under direction  
for use.

Synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.

be more specific  
How do you disinfect  
a vehicle

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%

Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%

TOTAL 100.00%

be more  
specific

Is this  
combination of  
a.i.'s - really  
in a new, tech  
product.

KEEP OUT OF REACH OF CHILDREN

**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

EPA Registration No.: 66171-

EPA Establishment No.: 66171-TN-001

Cite All form  
wrong - Need to  
write to All  
companies on data  
submit the list



Zephyr Cove, NV 89448

Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607

# SYNERGIZE DRAFT LABEL

March 24, 1998

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES AND CALF PENS:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatchery, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food. Protective gloves are recommended when working with solution.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Net Contents: \_\_\_\_\_ U.S. Gallons



# SYNERGIZE DRAFT LABEL

March 24, 1998

Page 2

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing moderate levels of organic matter.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at the use dilution (1:256).

### A.O.A.C. Use-Dilution Method

Staphylococcus aureus A.T.C.C. 6538

Salmonella choleraesuis A.T.C.C. 10708

### A.O.A.C. Use-Dilution Method

Pseudomonas aeruginosa A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

### GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of Hatcheries - in hatcheries & setters, chick-go-round, traywashing machines, central and portable fogging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick busses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in moderate levels of organic matter.

BOOT/SOUE & WHEEL WASH. SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMAL FOGGING

- 1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.
- 2) Double check to be sure all people, livestock and pets have vacated the building.
- 3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.
- 4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.
- 5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.

delete  
not needed

can list  
organisms-  
check efficacy

This would be considered a  
food use.  
Delete

where / what sites  
potable water  
rinse ??

**MN**

**Mattos  
Newspapers  
Incorporated**  
1021 Fresno St.  
P.O. Box 878  
Newman, CA 95360

US EPA Registration Division  
TO: (7510W)  
1921 Jefferson Davis Hwy  
Crystal Mall - 2  
Document Processing Desk - 2nd Flr  
Arlington, VA 22202  
Attn: Miss Barbara Bingle

**S**  
**CLE**  
**STAPI**

Synergistic cleaner-disinfectant-deodorant specially formulated for industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of hard non-porous surfaces.

agriculture removed

**ACTIVE INGREDIENTS**

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%  
Glutaraldehyde.....7.00%

**INERT INGREDIENTS**

.....67.00%  
**TOTAL** .....100.00%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

**STORAGE AND DISPOSAL**

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

**CONTAINER DISPOSAL:**

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**EPA Registration No.: 66171-**

**EPA Establishment No.: 66171-TN-001**

**PRESERVE**  
INTERNATIONAL

Zephyr Cove, NV 89448

Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607



# SYNERGIZE DRAFT LABEL

March 24, 1998

Page 2

## DESCRIPTION

SYNERGIZE is a multi-purpose disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing moderate levels of organic matter.

SYNERGIZE is for use on glazed ceramic and tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, hard non-porous treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at the use dilution (1:256).

### A.O.A.C. Use-Dilution Method

Staphylococcus aureus A.T.C.C. 6538

Salmonella choleraesuis A.T.C.C. 10708

### A.O.A.C. Use-Dilution Method

Pseudomonas aeruginosa A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

### GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of Hatcheries - in hatchers & setters, chick-go-round, traywashing machines, central and portable logging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick busses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in moderate levels of organic matter.

BOOT/SHOE & WHEEL WASH. SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

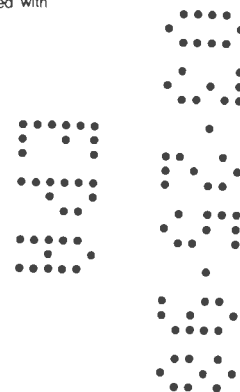
SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMALFOGGING

- 1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.
- 2) Double check to be sure all people, livestock and pets have vacated the building.
- 3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.
- 4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.
- 5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.



# SYNERGIZE DRAFT LABEL

March 24, 1998

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES AND CALF PENS:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatchery, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food. Protective gloves are recommended when working with solution.

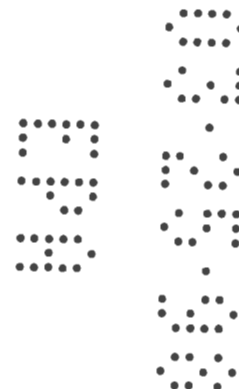
**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Net Contents: \_\_\_\_\_ U.S. Gallons





Reviewer ID

Submission No.

Data Package No.

B. PRINGLE  
5534828  
D 24/628

## CODING FORM FOR APPLICATIONS FOR REGISTRATION/AMENDMENTS

File Symbol/Reg. No.

66171-T PM 31

Action Code

186

|10| Descriptor (Amend/Resubmissions only)

|5| Intrastate Call-in ☐ (Y) Yes☐ (N) No

|15| Child-resistant Packaging

☐ (C) Certification☐ (S) Service Person

|20| Registration Type:

☐ (1) Conditional☐ (2) Unconditional☐ (R) Non-residential Use Only☐ (N) Not-Applicable

|25| Proposed Classification: |30| Final Classification:

☐ (R) Restricted☐ (R) Restricted☐ (G) General☐ (N) Not Classified

|35| Date on Application:

1	1	2	4	9	7
MO		DAY		YR	

|04| EPA Received Date:

1	1	2	4	9	7
MO		DAY		YR	

|40| Date Received by PM

1	1	2	4	9	7
MO		DAY		YR	

|80| Method of Support:

☐ (1) Cite-All☐ (6) Owner Submission☐ (4) Not Applicable☐ (7) Total Submission☐ (5) Not Submitted☐ (8) Selective Method

Reviewers Requested:

CH

EF

PL

DEB

NDEB

TB

EEB

EFGB

DATE  
SENTDUE  
DATEDATE  
RETURNEDRESPONSE  
CODERESPONSE  
DATE|115| FINAL Response  
ACTION Code13

|120| Response

MAR 19 1998

75-DAY RESPONSE DUE DATE: ☐ (Y) Yes☐ (N) No

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 19 1998

PRESERVE INTERNATIONAL  
P. O. Box 3135  
Turlock, CA 95381

ATTN: Gary Gaumer, President

SUBJECT: Synergize  
EPA File Symbol 66171-T  
Application for Registration Dated April 2, 1997

Dear Mr. Gaumer:

A review of your application for registration of the above product shows that it is in compliance with PR Notice 91-2 and it agrees with the label and the Confidential Statement of Formula (CSF) is acceptable. The provided product chemistry data in MRID Nos. 444337-01-04 is in compliance with 40CFR part 158.155 through 158.190 and it satisfies product chemistry data for this product for Guideline Ref. Series 61, 62 and 63.

In the proposed label in the ingredient statement term Active Ingredients and Inert ingredients must be in the same type size.

The claim for agricultural use should be deleted or you should submit verification that this formulation is exempted from the requirement of tolerances or tolerances are established.

Please note that this product is not cleared by FDA for use in food contact surfaces as terminal sanitizing rinse. Therefore, when it is used on food contact surfaces as a disinfectant then potable water rinse must be specified for each food contact surface use. Please provide proof of FDA clearance for terminal sanitizer rinse.

CONCURRENCES						
SYMBOL	7570W					
SURNAME	Phangley					
DATE	3-18-98					



EFFICACY

See the enclosed efficacy review for help in correcting your label. If you have any further questions, please contact Barbara Pringle at (703)308-6236.

Sincerely,



Velma Noble  
Team Leader I  
Regulatory Management Branch I  
Antimicrobial Division (7510W)

# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL \* PSEUDOMONACIDAL \* SALMONELLACIDAL

*Synergistic cleaner-disinfectant-deodorant specially formulated for agricultural, industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of soils on all surfaces.*

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%

Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%

TOTAL .....100.00%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

EPA Registration No.: 66171-<sup>T</sup>  
EPA Establishment No.: 66171-TN-001



Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607



# SYNERGIZE DRAFT LABEL

October 20, 1997

Page 2

## DESCRIPTION

SYNERGIZE is a multi-active disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm or cold, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing high levels of organic matter.

SYNERGIZE is safe for use on ceramic and glazed tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at a use dilution (1:256).

### TEST METHOD

Staphylococcus aureus A.T.C.C. 6538  
Salmonella choleraesuis A.T.C.C. 10708

### TEST METHOD

Pseudomonas aeruginosa A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

### GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of Hatcheries - in hatcheries & setters, chick-go-round, traywashing machines, central and portable fogging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick buses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in high levels of organic matter.

BOOT/SOKE & WHEEL WASH. SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

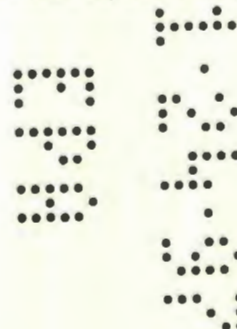
SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMALFOGGING

- 1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.
- 2) Double check to be sure all people, livestock and pets have vacated the building.
- 3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.
- 4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.
- 5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.



# SYNERGIZE DRAFT LABEL

October 20, 1997

Page 3

## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATITES FACILITIES AND CALF PENS:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatchery, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

## PRECAUTIONARY STATEMENTS

### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food. Protective gloves are recommended when working with solution.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Net Contents: \_\_\_\_\_ U.S. Gallons



SUBJECT: PRODUCT CHEMISTRY REVIEW - Antimicrobial Division  
DP Barcode D241627 Reg. No. or File Symbol 66171-T  
Manufacturing-Use [ ] OR End-Use Product [✓]

TO: Velma Noble / Barbara Pringle  
PM Team No. 31

FROM: Anna Skapars, Chemist  
Risk Assessment and Science Support Branch

THRU: Norman Cook, Chief  
Risk Assessment and Science Support Branch

**SUMMARY OF INFORMATION REVIEWED AND FINDINGS**

This application is for registration of a new product cleaner, disinfectant and deodorant.

Confidential Statement of Formula dated 7-15-97 is in compliance with PR Notice 91-2, it agrees with the label and CSF is acceptable.

Provided product chemistry data in MRED Nos 444337-01 through 444337-04 is in compliance with 40 CFR part 158.155 through 158.190 and it satisfies product chemistry data for this product for Guideline Ref. Series 61, 62 and 63.

In the proposed label in the ingredient statement terms Active Ingredients and Inert ingredients must be in the same type size

The claim for agricultural use should be deleted or registrant should submit verification that this entire formulation is exempted from the requirement of tolerances or tolerances are established.

Please note that this product is not cleared by FDA for use in food contact surfaces as terminal sanitizing rinse. Therefore when it is used on food contact surfaces as a disinfectant then potable water rinse must be specified for each food contact surface use.

Note to PM:

Please check all uses are all acceptable?

Anna Skapars  
2-23-98

PRODUCT CHEMISTRY REVIEW

END-USE PRODUCT ☒ MANUFACTURING-USE PRODUCT ☐  
EPA Reg. No. (or File Symbol No.) 66171-T

Registration ☒

Reregistration ☐  
Case No.: \_\_\_\_\_

D24627  
DP Barcode/Chemist: Anna Skapars

1) \_\_\_\_\_ 3) \_\_\_\_\_

2) \_\_\_\_\_ 4) \_\_\_\_\_

1. Product Name: Synergize

2. Company: Preserve International

3. Type of Submission: New ☒ Resubmission ☐ Amendment ☐  
"ME-TOO" ☐ Alternate Formulation ☐ REPACK ☐  
Expt Use Permit ☐ Other (Specify) \_\_\_\_\_

4. CONFIDENTIAL STATEMENT OF FORMULA

4a. Type of formulation and source registration

- Non-integrated formulation system
  - Are all TGAI's used registered • yes ☒ • no ☒
- Integrated formulation system ☐
- If "ME-TOO", specify EPA Reg. No. of existing product:

4b. Clearance of inerts for non-food or food use:

- Cleared for food use under 40CFR§180.1001:  
• yes ☐ • no ☐. If yes: • c ☐ • d ☐ • e ☐  
Cleared for non-food use: • yes ☒ • no ☐

4c. Physical state of product: Liquid

4d. The chemical IDs, analytical information (including that for the TGAI's), density, pH, and flammability are consistent with that given in GRN 61, 62, and 63-7, 63-12, and 63-15, respectively. • yes ☒ • no ☐



- 4e. Density (or bulk density for solids): at °C. 8.66 lbs/gal
- 4f. pH (if dissolved or dispersed in water): 5.89
- 4g. Flash point and/or flame extension: N/A
- 4h. NCs and CLs are acceptable: • ☒ • not acceptable ☐
- 4i. Active ingredient(s) NC. LCL UCL
- A. Alkyl (C<sub>12</sub> 67%, C<sub>14</sub> 25%, C<sub>16</sub> 7%, C<sub>18</sub> 1%)
- B. dimethyl benzyl ammonium chloride 26.0% 25.22% 26.78%
- Glutaraldehyde . . . . . 7.0% 6.65% 7.35%
- C.
- D.
- 4j. For products produced by an integrated formulation system:
- All impurities of toxicological significance have an UCL: • yes ☐ • no ☐ • not applicable ☒
  - All impurities ≥ 0.1% in the product have been identified: • yes ☐ • no ☐ • not applicable ☒

## 5. PRODUCT LABEL

- 5a. The active ingredients statement (chemical IDs and NCs) is consistent with the CSF: • yes ☒ • no ☐
- 5b. The formulation contains one of the following:
- 10% or more of a petroleum distillate: • yes ☐ • no ☒
  - 1% or more of methyl alcohol: • yes ☐ • no ☒
  - sodium nitrite at any level: • yes ☐ • no ☒
  - a toxic List 1 inert at any level: • yes ☐ • no ☒
  - arsenic in any form: • yes ☐ • no ☒
- 5c. If yes to any of the above, does the inert ingredients statement contain a footnote indicating this? • yes ☐ • no ☐ • not applicable ☒
- 5d. The appropriate warning statement regarding flammability or explosive characteristics of the product are given on the label: • yes ☒ • no ☐ • not applicable ☐

5e. The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses:      • yes [ ]      • no [ ]

6f. Does the product require an expiration date at which time the NC falls below the LCL (based on the one year storage stability data or other information):  
                                  • yes [ ]      • no [ ]

6. PRODUCT CHEMISTRY (GRN 61, 62, 63)

6a. <u>Chemical IDs/Manufacture/Analytical Information</u>	<u>Accept of Information</u>	<u>MRID No.</u>
61-1 Chemical ID (see Appendix) <sup>1</sup>	A	444337-01
61-2a Manufacturing Process <sup>2</sup>	A	CSF
61-2b Formulation Method <sup>3</sup>	A	CSF
61-3 Discussion of Impurities <sup>4</sup>	A	CSF
62-1 Analysis <sup>5</sup>	N/A	
62-2 Certified Limits <sup>6</sup>	A	CSF
62-3 Analytical Method for AIs <sup>7</sup>	A	44437-03



6b. <u>Physical/Chemical Properties</u>	<u>Accept of Data</u>	<u>Value or qualitat descrip</u>	<u>MRID No.</u>
63-3 Physical State	A	Liquid	44437-01
63-7 Density/Bulk Density (g/cc)	A	8.63 lbs/gal	- " -
63-12 pH of product <sup>9</sup>	A	5.66	- " -
63-14 Oxid/Red Action	N/A		
67-15a Flash Point (°C) <sup>10</sup>	N/A		
63-15b Flame Extension	N/A		
63-16 Explodability	N/A		
63-17 Storage Stability (% degradation of AIs at 20-30 C for ≥ 1 year)	A	Stable	
63-18 Viscosity	A	44.7 cps	
63-19 Miscibility (with hydrocarbon solvents) <sup>11</sup>	A	100% miscible	
63-20 Corrosivity (specify metals/conditions)	A	Corrosive to metals & skin	
63-21 Dielectric Breakdown Voltage <sup>12</sup>	N/A		

**Explanations:** A = Acceptable; N = not acceptable; NA = technically not applicable; G = data gap; U = requires upgrading; W = waived; E = EPA estimate.

**Footnotes:** <sup>1</sup> See Confidential appendix A for additional information; <sup>2</sup> For MF/EP products produced by an integrated formulation system; <sup>3</sup> For products produced from a TGA or MF; <sup>4</sup> May be waived unless actual/possible impurities are of tox concern; <sup>5</sup> Five batch analysis required for products produced by an integrated formulation system; <sup>6</sup> If different from standard CIs recommended in 40 CFR 158.175, this should be discussed in Confidential Appendix A; <sup>7</sup> Abbreviate method used as follows: gas chromatography (GC), infrared (IR), ultraviolet absorption (UV), nuclear magnetic resonance (NMR), etc. <sup>8</sup> Provide brief description, e.g., color - yellow or property value, e.g. density 1.25 g/cc. Unless otherwise indicated, the property should be at 25 C; <sup>9</sup> If product is a water solution or dispersion; <sup>10</sup> Not required for aerosols; <sup>11</sup> Emulsifiable liquids only; <sup>12</sup> For end-use products used near electrical equipment.

Attachment: Confidential Appendix A (page 3).

cc: Reviewer's Name and Control File (Reg. No. or Rereg Case No.) E7505W:RD:R5B:PCRS:CS-  
1:Rxxxx:Reviewer's Name:Typist Initials:xx/xx/94:703-308-xxxx:Code (Reg or Rereg No.)  
<PCFORD>

RISK ASSESSMENT AND SCIENCE SUPPORT BRANCH

EFFICACY REVIEW - I

ANTIMICROBIAL DIVISION

IN 01/29/98 OUT 03/03/98

*Srinivas Gowda*

Reviewed by Srinivas Gowda Date 03/03/98

EPA Reg. No. or File Symbol 66171-T

LAN Code 66171-T. 398 *(Mekle & Byrd)*

EPA Petition or SUP No. None

Date Division Received 11-24-97

Type Product Hospital Disinfectant

MRID No (s) 44337-05 444337-06

Product Manager P-31 (VNoble)

PM Team Reviewer Barbara Pringle

Product Name Synergize

Company Name Preserve International

Submission Purpose New Application with efficacy data and label

Type Formulation Liquid

**Active Ingredient (s):** %

Alkyl (C12, 67%, C14, 25%, C16 7%, C18 1%) demethyl benzyl ammonium chloride .....	10.00
Glutaraldehyde .....	7.00



RISK ASSESSMENT AND SCIENCE SUPPORT BRANCH

EFFICACY REVIEW - II

ANTIMICROBIAL DIVISION

EPA Reg. No. or File Symbol 66171-T

EPA Petition or EUP No. None

Date Division Received 11-24-97

Type Product Hospital Disinfectant

MRID No (s) 444337-05 444337-06

Product Manager PM 31 (VNoble)

PM Team Reviewer Barbara Pringle

Product Name Synergize

Company Name Preserve International

202.0 **Recommendations**

202.1 **Efficacy Not Supported by the Data:**

"AOAC Disinfectant Testing of Synergize in the Presence of 5% Blood Serum and 1000 ppm CaCO<sub>3</sub> Hard Water" by Richard Gammon, Presque Isle Cultures, Presue Isle, PA, dated 4/17/97 (MRID No. 444337-05)

The submitted data by the modified AOAC Use-Dilution Test Method is not acceptable for the following reasons:

1. Glass carriers were employed instead of method recommended stainless steel carriers. This is an unauthorized and unacceptable modification.

2. Test cultures were not propagated in accordance with the AOAC Use-Dilution Test procedure.

3. All three lots failed to meet the performance requirements when tested against Staphylococcus aureus.

202.1 **Efficacy Supported by the Data:**

"AOAC Disinfectant Testing of Synergize in the Presence of 5% Blood Serum and 1000 ppm CaCO<sub>3</sub> Hard Water" by Richard Gammon, Presque Isle Cultures, Presue Isle, PA, dated 11/14/97 (MRID No. 444337-06)

The submitted data by the Modified AOAC Use-Dilution Test Method are acceptable to support effectiveness of the product as a hospital disinfectant against Salmonella choleraesuis ATCC 10708, Staphylococcus aureus ATCC 6538, and Pseudomonas aeruginosa ATCC when used at a 1:256 dilution on hard, non-porous surfaces in the presence of 5% blood serum and 1000 ppm CaCO<sub>3</sub> hard water for a contact time of 10 minutes at room temperature (20 C).

*Additional data required to support efficacy: none*  
**Labeling:**

On Page 1, revise "...disinfecting of soils on all surfaces" to read "...disinfecting of hard, non-porous surfaces."

On page 2, under the heading "Description" change "...multi-active..." to read "...multi-purpose...", delete the word, "cold," and change "...high levels of organic matter" to read "...moderate levels of organic matter."

On page 2, under the heading "Description" in the second paragraph, revise "...Synergize is safe for use on ceramic and glazed tile surfaces...treated or untreated wood..." to read "...Synergize is for use on glazed ceramic and tile surfaces...hard, non-porous treated or

202-2  
203.0

efficacy review



untreated wood..."

Change "Test Method" to read "AOAC Use-Dilution Method."

Under the Heading "General Use Directions" revise the statement "...is extremely effective in high levels of organic matter" to read "...is effective in moderate levels of organic matter."

 United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input checked="" type="checkbox"/> Registration <input type="checkbox"/> Amendment <input type="checkbox"/> Other	OPP Identifier Number <div style="font-size: 24pt; color: red; font-weight: bold;">237361</div>
---	--	--

**Application for Pesticide - Section I**

1. Company/Product Number 66171 <i>T</i>	2. EPA Product Manager Unknown <i>Velma Noble</i>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Synergize	PM# <i>Unknown</i> <i>PM 31</i>	
5. Name and Address of Applicant (Include ZIP Code) Preserve International P.O. Box 3135 Turlock, CA 95381  <input checked="" type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____  Product Name _____

**Section - II**

<input checked="" type="checkbox"/> Amendment - Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application.  <input checked="" type="checkbox"/> Other - Explain below.
--	--

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

New Product

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 55g, 30g, 15g, 5g, 4x1g, 2.5x2g		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input checked="" type="checkbox"/> Other <i>Screen Printed</i>	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Gary Gaumer	Title President	Telephone No. (Include Area Code) (209) 664-1607
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title President	
4. Typed Name Gary Gaumer	5. Date July, 15, 1997	



## PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

**PAPERWORK REDUCTION ACT NOTICE:** Public reporting burden for this collection of information is estimated to average 0.85 hour per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

**INSTRUCTIONS:** This form is to be used for all applications for new registration, end use reregistration, amendment, resubmission, to applications for notifications, final printed labeling, reregistration, etc. In order to process an application for a new registration submitted on this form, the following material must accompany the application:

1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
2. Confidential Statement of Formula (EPA Form 8570-4);
3. Formulator's Exemption Statement (EPA Form 8570-27);
4. Five copies of draft labeling;
5. Three copies of any data submitted;
6. Authorization letter where applicable;
7. Matrices where applicable.

**Submission of Labeling** - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way as to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

**Submission of Data** - Data submitted in support of this application must be submitted in accordance with PR Notice 86-5.

**SPECIFIC INSTRUCTIONS:** Please read the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

**Block A** - Check the appropriate action for which you are submitting this form.

**SECTION I** - This section must be completed, as applicable, for all registration actions.

1. **Company/Product Number** - Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrant, a distributor, or as an establishment. If your product is registered, insert the Product Number.
2. **EPA Product Manager** - If known, fill in the name and PM number of the EPA Product Manager.
3. **Proposed Classification** - Specify the proposed classification of this product.
4. **Product Name** - Enter the complete product name of this pesticide as it will appear on the label. The name must be specific to this product only. Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
5. **Name and Address of Applicant** - The name of the firm or person and address shown in your application is the person or firm to whom the registration will be issued. If you are acting in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
6. **Expedited Review** - FIFRA section 3 (c) 3 (B) provides for expedited review of applications for registration, or amendments to existing registrations, that are similar or identical to other pesticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

**SECTION II** - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. **Subject of submission** - Check the applicable block and provide the Agency letter date if appropriate. Provide a brief explanation of the purpose(s) for the submission, such as "the addition of a site, pest or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

**SECTION III** (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

1. **Type of Packaging** - Check the appropriate block if your product will be packaged in the indicated packaging types. Indicate the size of the individual packets and number per retail container.
2. **Type of Retail Container** - Indicate type of container in which product will be marketed.
3. **Location of Net Contents** - Indicate the location of the net contents information for your product.
4. **Size(s) of Retail Container** - Specify the net contents of all retail containers for your product.
5. **Location of Use Directions** - Indicate the location of the use directions for your product.
6. **Manner in which label is affixed to product** - Indicate the method product label is attached to retail container.

**SECTION IV** (Contact Point) - This Section must be completed for all applications for Registration actions, i.e., new products registration, resubmission, "me too," reregistration, etc.

- 1-5. Self-explanatory.
6. EPA Use Only.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

11/24/97

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

Application

PRODUCT NAME: Synergize  
COMPANY NAME: Preserve International  
OPP IDENTIFICATION NUMBER: 237361  
EPA FILE SYMBOL: 66171-T  
EPA RECEIPT DATE: 11/24/97

SUBJECT: RECEIPT OF APPLICATION FOR A NEW REGISTRATION

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for a new registration and it has passed an administrative screen for completeness.

Please note that this is only a notification of receipt of your application. This is only the first step in the application process, and does NOT constitute approval.

If you have any questions please contact *Velma Noble, Product Manager 31*, at (703) 308-9086.

Sincerely,

*Jim Harkin*

Front End Processing Staff  
Information Services Branch  
Information Resources & Services Division





Certification with Respect to Citation of Data

Applicants Name and Address

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

EPA File Symbol/Registration Number

66171-T

Product Name

Synergize

Date of Application

July 15, 1997

**NOTE:** If your product is a 100% repackaging of another EPA-registered product that you purchase, and is labeled for the same uses, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product that is identical or substantially similar and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application. (Check the appropriate boxes, in items 2 and 3, or 4 below that pertain to your application.)

2. I certify that, for each study cited in support of this application for registration that is an exclusive use study.

☐ I am the original submitter\*; or

☒ I have obtained the written permission of the original submitter for GDA 50, which is  
(insert name of chemical)  
BASF (for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*

3. I certify that, for each study cited in support of this application for registration that is not an exclusive use study;

a. ☐ I am the original data submitter\*; or

☐ I have obtained the written permission of the original data submitter for \_\_\_\_\_, which is  
(insert name of chemical)  
\_\_\_\_\_ (for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*; or

b. ☒ I have notified in writing the companies BASF for GDA 50 that  
(insert names of companies) (insert name of chemical)  
EPA Reg. No. 662-73  
have submitted data I have cited to support this application and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(F) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); and (b) Commence negotiations to determine which data are subject to the compensation requirement of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are:

Companies BASF for GDA 50 (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name)  
listed on the Pesticide Data Submitters List for all active ingredients contained in my product (cite-all method or cite-all option under Selective Method\*). (Also, sign the General Offer Statement below.)  
Companies \_\_\_\_\_ for \_\_\_\_\_ (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name)  
that have submitted the studies which I have cited (Selective method\*).

4. ☐ I certify that for each study cited in support of this application I am not required to offer data compensation or obtain written permission because all time periods for exclusive use and data compensation have expired.

\* A Data Matrix identifying these studies is attached. (Note: a Data Matrix is not required under the cite-all method)

Signature

Name and Title

Date

General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required.

Signature

Name and Title

Gary Gaumer President

Date July 15, 1997

Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 2.5 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining needed data, and completing and reviewing this application form. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M Street, S. W., Washington, DC 20460; and to Office of Management and Budget, Paperwork Reduction Project (2070-0055), Washington, DC 20503, marked "Attention Desk Officer for EPA."

old data comp?

4  
2  
2





United States  
Environmental Protection Agency  
Washington, DC 20460

Form Approved  
OMB No. 2070-0060  
Approval Expires 02-28-95

Certification with Respect to Citation of Data

Applicants Name and Address

Preserve International  
P.O. Box 3135  
Turlock, CA 95381

EPA File Symbol/Registration Number

66171-T

Product Name

Synergize

Date of Application

July 15, 1997

**NOTE:** If your product is a 100% repackaging of another EPA-registered product that you purchase, and is labeled for the same uses, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

1. This application is supported by all data submitted or cited in the application. In addition, if cite-all options are indicated, this application is supported by all data in the Agency's files that concern the properties or effects of this product that is identical or substantially similar and that is one of the types of data that would be required to be submitted if this application sought the initial registration of a product of identical or similar composition and intended uses under the data requirements in effect on the date of approval of this application. (Check the appropriate boxes, in items 2 and 3, or 4 below that pertain to your application.)

2. I certify that, for each study cited in support of this application for registration that is an exclusive use study.

☐ I am the original submitter\*; or

☒ I have obtained the written permission of the original submitter for Maquat LC 12S-50%, which is  
(insert name of chemical)  
Mason Chemical (for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*

EPA Reg 10324-3

3. I certify that, for each study cited in support of this application for registration that is not an exclusive use study;

a. ☐ I am the original data submitter\*; or

☐ I have obtained the written permission of the original data submitter for \_\_\_\_\_, which is  
(insert name of chemical)  
(for multiple chemicals link the companies who are original data submitters  
(insert names of companies)  
with the appropriate chemical name) to cite that study\*; or

b. ☒ I have notified in writing the companies Mason Chemical for Maquat LC 12S-50% that  
(insert names of companies) (insert name of chemical)  
have submitted data I have cited to support this application and have offered to: (a) Pay compensation for those data in accordance with section 3(c)(1)(F) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA); and (b) Commence negotiations to determine which data are subject to the compensation requirement of FIFRA and the amount and terms of compensation due, if any. The companies I have notified are:

Companies Mason Chemical for Maquat LC 12S-50% (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name)  
listed on the Pesticide Data Submitters List for all active ingredients contained in my product  
(cite-all method or cite-all option under Selective Method\*). (Also, sign the General Offer  
Statement below.)

Companies \_\_\_\_\_ for \_\_\_\_\_ (for multiple  
(insert names of companies) (insert name of chemical)  
chemicals link the companies who are original data submitters with the appropriate chemical name)  
that have submitted the studies which I have cited (Selective method\*).

4. ☐ I certify that for each study cited in support of this application I am not required to offer data compensation or obtain written permission because all time periods for exclusive use and data compensation have expired.

\* A Data Matrix identifying these studies is attached. (Note: a Data Matrix is not required under the cite-all method)

Signature

Name and Title

Date

General Offer to Pay: I hereby offer and agree to pay compensation to other persons, with regard to the approval of this application, to the extent required.

Signature

Name and Title

Gary Gaumer President

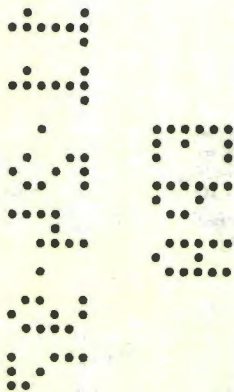
Date

July 15, 1997



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# PRESERVE INTERNATIONAL

444337-00

November 19, 1997

Antimicrobial Program Branch  
Registration Division (7505C)  
US Environmental Protection Agency  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22201

MRID's

Re: Synergize Disinfectant  
EPA File Symbol: 66171- T  
Application for Pesticide Registration  
OPP ID# 237361  
Date: July 15, 1997

To whom it may concern:

Enclosed please find the following information on the above referenced product, Synergize Disinfectant, that is being submitted at the request of Preserve International.

- 1: Transmittal letter.
- 2: Application for Pesticide Registration - OPP ID # 237361
- 3: Administrative Package including: CSF, Certification with Respect to Citation of Data, Formulator's Exemption, and Preserve International's letter requesting permission to use data.
- 4: The following volumes, each in three copies containing data for review:

44433701 a.	Volume 1	Product Chemistry including Confidential Package.
44433702 b.	Volume 2	SYNERGIZE--Selected Physical and Chemical Characteristics
44433703 c.	Volume 3	Preliminary Analysis and Precision of Analytical Method Used to Validate Certified Limits: Alkyl (67% C <sub>12</sub> , 25% C <sub>14</sub> , 7% C <sub>16</sub> , 1% C <sub>18</sub> ) dimethyl benzyl ammonium chloride
44 3704 d.	Volume 4	Preliminary Analysis and Precision of Analytical Method Used to Validate Certified Limits: Glutaraldehyde
44433705 e.	Volume 5	AOAC Disinfectant Testing of SYNERGIZE in the presence of 5% Blood Serum and 1000 ppm CaCO <sub>3</sub> Hard Water-Including Addendum 1.
44433706	Volume 6	

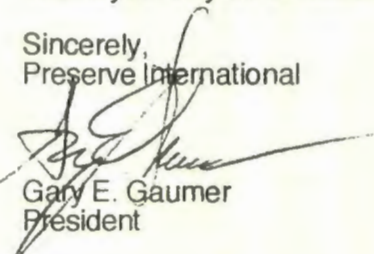
5. Five (5) copies of the draft master label.

I believe that toxicological claims are met by the citations on the above active ingredient by the cite all method.

If there are questions regarding this submission, please contact me at (209) 664-1607.

Thank you for your consideration of this Application.

Sincerely,  
Preserve International

  
Gary E. Gaumer  
President



# **PRESERVE**

INTERNATIONAL

*Mailed April 2, 1997*

April 2, 1997

Mr. Harry Guisetties  
BASF Corp.  
3000 Continental Drive North  
Mount Olive, NJ 07828

Dear Mr. Guisetties:

To comply with EPA regulation 40 CFR 152.86, Preserve International requests written permission allowing the United States Environmental Protection Agency to access the data on file, with the USEPA, for BASF Corp's. GDA 50, EPA Reg. No. 662-73, so that Preserve International may register an end use disinfectant containing 7.00% Glutaraldehyde and 26.00% Quaternary Ammonium. The name of our product is Synergize.

In addition, Preserve International offers to pay BASF Corp. compensation for those data in accordance with section 3(c)(1)(F) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

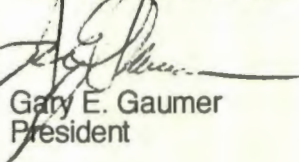
Please respond to:

Mr. Gary E. Gaumer  
President  
Preserve International  
P.O. Box 3135  
Turlock, CA 95381  
(209) 664-1607

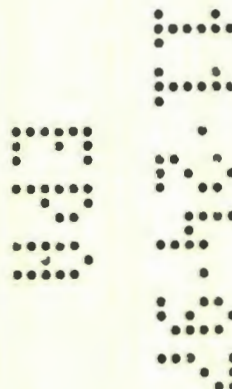
If no response is received within thirty (30) days of this request, Preserve International will assume permission is granted.

Thank you for your time and consideration.

Sincerely,  
Preserve International



Gary E. Gaumer  
President







# **PRESERVE**

INTERNATIONAL

*mailed April 2, 1997*

April 2, 1997

Mr. Mark Mason  
Mason Chemical Company  
721 W. Algonquin Road  
Arlington Heights, IL 60005

Dear Mark :

To comply with EPA regulation 40 CFR 152.86, Preserve International requests written permission to access the data on file with the United States Environmental Protection Agency for Mason Chemical's Maquat LC-12S 50% Alkyl dimethyl benzyl ammonium chloride (67% C<sub>12</sub>, 25% C<sub>14</sub>, 7% C<sub>16</sub>, 1% C<sub>18</sub>), EPA Reg. No. 10324-3, so that Preserve International may register an end use disinfectant containing 7.00% Glutaraldehyde and 26.00% Quaternary Ammonium. The name of our product is Synergize.

In addition, Preserve International offers to pay Mason Chemical compensation for those data in accordance with section 3(c)(1)(F) and 3(c)(2)(D) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

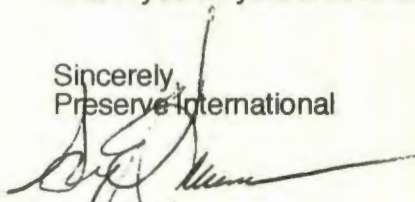
Please respond to:

Mr. Gary E. Gaumer  
President  
Preserve International  
P.O. Box 3135  
Turlock, CA 95381  
(209) 664-1607

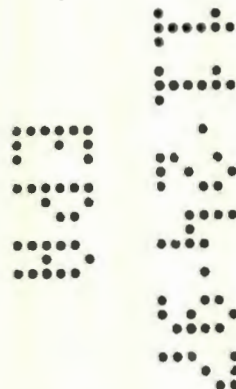
If no response is received within sixty (60) days of this request, Preserve International will assume permission is granted.

Thank you for your time and consideration.

Sincerely,  
Preserve International



Gary E. Gaumer  
President



# SYNERGIZE

## CLEANER-DISINFECTANT-DEODORANT

STAPHYLOCIDAL \* PSEUDOMONACIDAL \* SALMONELLACIDAL

*Synergistic cleaner-disinfectant-deodorant specially formulated for agricultural, industrial or non-food, contact surfaces such as animals and poultry housing facilities, hatcheries and swine producing facilities including farrowing pens, nurseries, growing and finishing floors equipment for mixing, packing, packaging product, transfer line, storage tanks, vehicles, floors and walls which require thorough penetration and disinfecting of soils on all surfaces.*

### ACTIVE INGREDIENTS

Alkyl (C<sub>12</sub>, 67%, C<sub>14</sub>, 25%, C<sub>16</sub>, 7%, C<sub>18</sub>, 1%) dimethyl benzyl ammonium chloride .....26.00%  
Glutaraldehyde.....7.00%

INERT INGREDIENTS .....67.00%  
TOTAL 100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

See First Aid statement and additional precautions on side panel

### STORAGE AND DISPOSAL

- Store away from heat.
- Do not transfer to another container.
- Do not reuse empty container.
- Do not contaminate water, food or feed by storage or disposal.

#### PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office of guidance.

#### CONTAINER DISPOSAL:

**Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Gallons or smaller:** Do not reuse empty container. Rinse empty container thoroughly and discard in trash.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or recondition, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

EPA Registration No.: 66171- **T**  
EPA Establishment No.: 66171-TN-001



Manufactured by

**PRESERVE INTERNATIONAL** ZEPHYR COVE, NV 89448, USA Telephone (800) 995-1607



# SYNERGIZE DRAFT LABEL

October 20, 1997

Page 2

## DESCRIPTION

SYNERGIZE is a multi-active disinfectant-cleaner with synergistic activity. SYNERGIZE provides the broadest spectrum kill of gram negative and gram positive microorganisms. SYNERGIZE provides effective cleaning and disinfecting in one operation. SYNERGIZE has excellent activity in warm or cold, soft or hard water (as much as 1000 ppm  $\text{CaCO}_3$ ) and performs especially well in areas containing high levels of organic matter.

SYNERGIZE is safe for use on ceramic and glazed tile surfaces, stainless steel, aluminum, chrome, galvanized metal, tin, brass, zinc, glass, treated or untreated wood, polyethylene, polypropylene, PVC (polyvinyl chloride), vinyl, fiberglass, viton, ethylene propylene, nitrile, acrylic and polyurethane.

The following tests run in conformance with A.O.A.C. Fifteenth Edition and all in the presence of 1000 ppm hard water and 5% organic soil. All tests performed at the use dilution (1:256).

### TEST METHOD

*Staphylococcus aureus* A.T.C.C. 6538  
*Salmonella choleraesuis* A.T.C.C. 10708

### TEST METHOD

*Pseudomonas aeruginosa* A.T.C.C. 15442

## DIRECTIONS FOR USE:

It is in violation of Federal Law to use this product in a manner inconsistent with its labeling. Recommended for disinfecting and deodorizing all pre-cleaned hard surfaces such as floors, walls, tile, stainless steel, aluminum, chrome, vinyl and glass surfaces. Not for use on feed, food or food contact surfaces.

### GENERAL USE DIRECTIONS:

1. Recommended for use on pre-cleaned hard, non-porous surfaces.
2. To disinfect and deodorize walls, floors, tables, drinking fountains, sinks, refrigerators, stoves, restroom fixtures, telephone booths, bird cages, kennels, and garbage cans. Apply a solution of 1/2 ounce Synergize per gallon water (dil 1:256). Apply with cloth, sponge, mop or mechanical spray device, making sure all surfaces are wetted thoroughly. Allow surfaces to remain wet for 10 minutes. All surfaces must be rinsed with clean water and allowed to dry before reuse.

SYNERGIZE is recommended for use at a dilution of 1:256 for thorough cleaning and disinfecting of Hatcheries - in hatcheries & setters, chick-go-round, traywashing machines, central and portable fogging systems, evaporative coolers, humidifying systems, Live Haul Equipment, including chick buses & transfer trucks, vehicle wheels, trays, coops, all chick boxes including polyethylene, foot baths, and feed bins. SYNERGIZE is also highly recommended for use in Poultry & Turkey breeder, layer and grow-out houses at a dilution of 1:256 as SYNERGIZE is extremely effective in high levels of organic matter.

BOOT/SHOE & WHEEL WASH. SYNERGIZE is recommended for use at a dilution of 1:256 to thoroughly clean and disinfect organically soiled boots, shoes and vehicle wheels. Change solution when solution becomes visibly dirty.

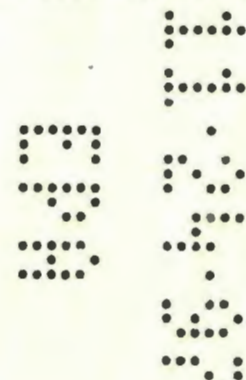
SYNERGIZE is recommended for use at a dilution of 1:256 for thorough disinfecting of farrowing pens, growing floors, nurseries, finishing floors, aisles, ventilation equipment, utensils, evaporative coolers, humidifying systems, transportation and transfer vehicles and vehicle wheels, boot and shoe baths, and feed bins.

SYNERGIZE is also highly recommended as a disinfectant for use on concrete floors at a dilution of 1:256.

## THERMALFOGGING

- 1) Using a namebrand thermalfogger, that will generate a fog of very small droplets (smallest particle possible), mix 1 gallon of SYNERGIZE with 1 gallon of water.
- 2) Double check to be sure all people, livestock and pets have vacated the building.
- 3) Close all windows, doors, louvers, curtains, etc. making the house as closed and tight as possible.
- 4) Insert the thermalfogger just inside the door of the building to be treated, or the nozzle of the thermalfogger inserted through a suitable opening in the door or building. The opening should be just large enough to accommodate the nozzle without contacting the nozzle. DO NOT ALLOW THE NOZZLE TO COME INTO CONTACT WITH ANYTHING DURING OPERATION as this part of the thermalfogger will be extremely hot.
- 5) The building treated should be kept closed for twenty-four (24) hours. After 24 hours, the fog will have settled and the house can now be opened and aired. The house should be opened for a minimum of twenty-four (24) to forty-eight (48) hours before it is repopulated with livestock.

NOTE: Fog generated by thermalfogging is very irritating to eyes, skin and mucous membranes. Under no circumstances should a room or building be entered by anyone within twenty-four (24) hours of the actual fogging. If the building must be entered, then, the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long shirt sleeves and pants. If feeders and waterers were not removed from the premises during treatment, or were not adequately covered to prevent contact with treatment, they should be washed with detergent and water before use for poultry or livestock.



# SYNERGIZE DRAFT LABEL

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## DIRECTIONS FOR USE IN SWINE PRODUCING FACILITIES:

- 1) Remove all animals and feed from the premises.
- 2) Empty all troughs, racks, and other feeding and watering appliances.
- 3) When possible, remove all gross soil, bedding, manure, caked on dirt, spider webs, etc. from walls to ceilings of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by hogs or other animals.
- 4) Thoroughly cleanse and saturate all surfaces with SYNERGIZE at 1/2-ounce per gallon of water (1:256). Use low or high pressure sprayer for optimum application.
- 5) Allow all treated areas to remain in contact with this solution for at least 10 minutes.
- 6) Immerse equipment used in handling and restraining animals, forks, shovels, and scrapers used for removing manure in SYNERGIZE at a dilution of 1:256. Allow to remain in contact for at least 10 minutes.
- 7) Thoroughly scrub treated feed troughs, automatic feeders, and waterers with SYNERGIZE at a dilution of 1:256 or 1/2 ounce per gallon of water. Rinse with potable water before reuse.
- 8) Ventilate buildings, and other closed spaces. Do not house swine or other livestock until treatment has been absorbed, set, or dried.

## DIRECTIONS FOR USE IN POULTRY HOUSE, FARM PREMISES, EQUINE FACILITIES, VEAL BARN, RATTIES FACILITIES AND CALF PENS:

1. Do not use in milking stalls, milking parlors, or milk houses.
2. Remove all animals and feed from the premises, vehicles, and enclosures.
3. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities and fixtures occupied or traversed by animals.
4. Empty all troughs, racks, and other feeding and watering appliances.
5. Thoroughly clean and saturate all surfaces with a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256), using conventional spraying methods. Allow to remain in contact for at least 10 minutes.
6. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure in a solution of 1/2 oz. SYNERGIZE per gallon of water (1:256). Allow to remain in contact for 10 minutes.
7. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains, waterers, mangers, hatches, setters, trays, racks, sexing tables and delivery trucks with a solution of SYNERGIZE at 1/2 oz. per gallon of water (1:256). Rinse with potable water before reuse.
8. Ventilate buildings, cars, boats, coops and other closed spaces. Do not house poultry or livestock or employ equipment until treatment has been absorbed, set or dried.

### PRECAUTIONARY STATEMENTS

#### Hazards to humans and domestic animals

**DANGER - KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes eye damage and severe skin irritation. Avoid breathing spray mist. Do not get in eyes, on skin or on clothing. Protect eyes and skin when handling concentrate. Harmful or fatal if swallowed. Avoid contamination of food. Protective gloves are recommended when working with solution.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### STATEMENT OF PRACTICAL TREATMENT

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink large quantities of water. Avoid alcohol and call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

Net Contents: \_\_\_\_\_ U.S. Gallons

